

APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

1/36

# IN VITRO GROWTH OF CD4 + PERIPHERAL BLOOD T CELLS IN SERUM-FREE MEDIUM

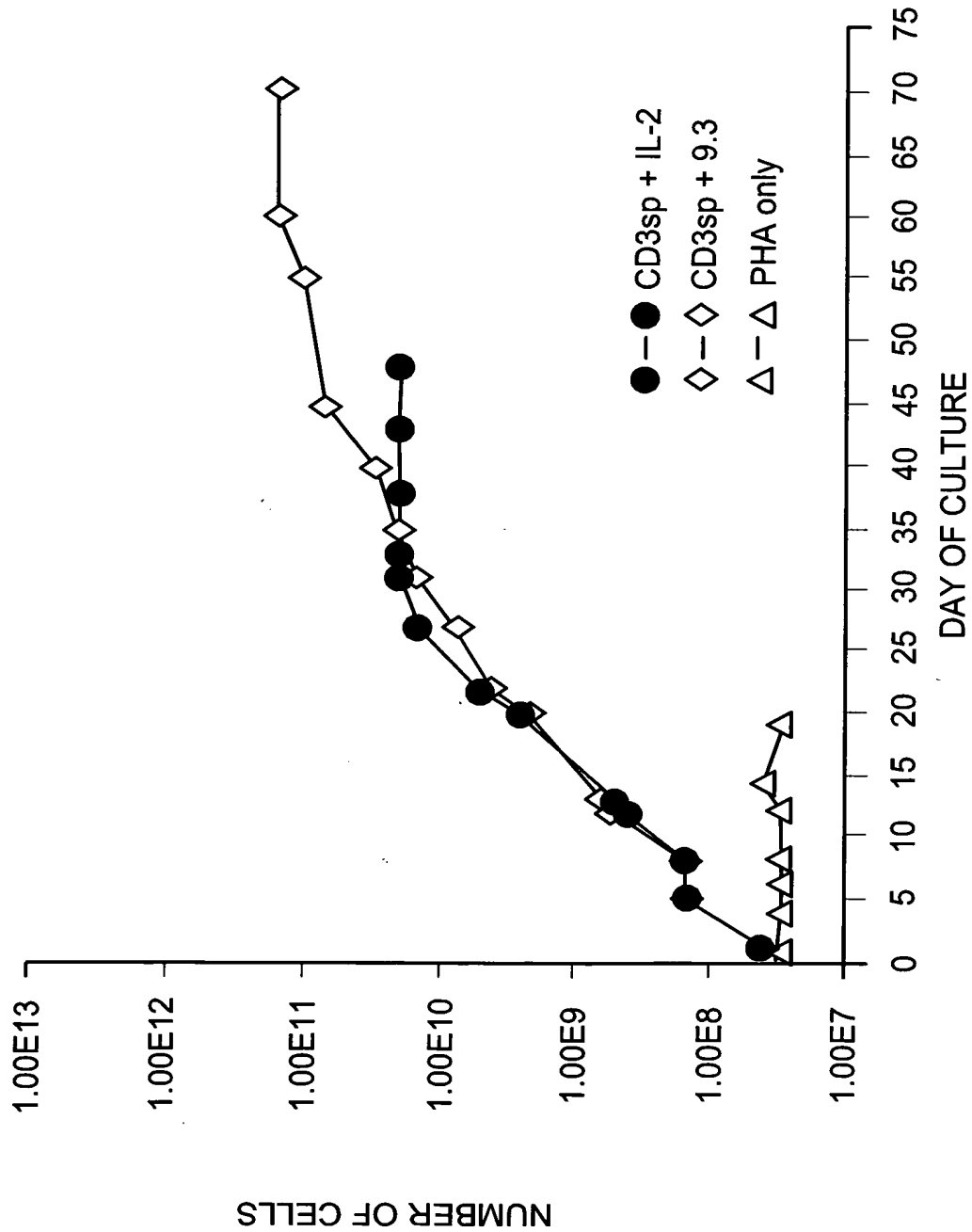


FIG. 1

RECEIVED  
1980  
10/10/80

APPROVED		O.G. FIG.	
BY	CLASS	SUBCLASS	
DRAFTSMAN			



GAMMA/DELTA NO. 7  
(RPMI w/ 10% FCS)

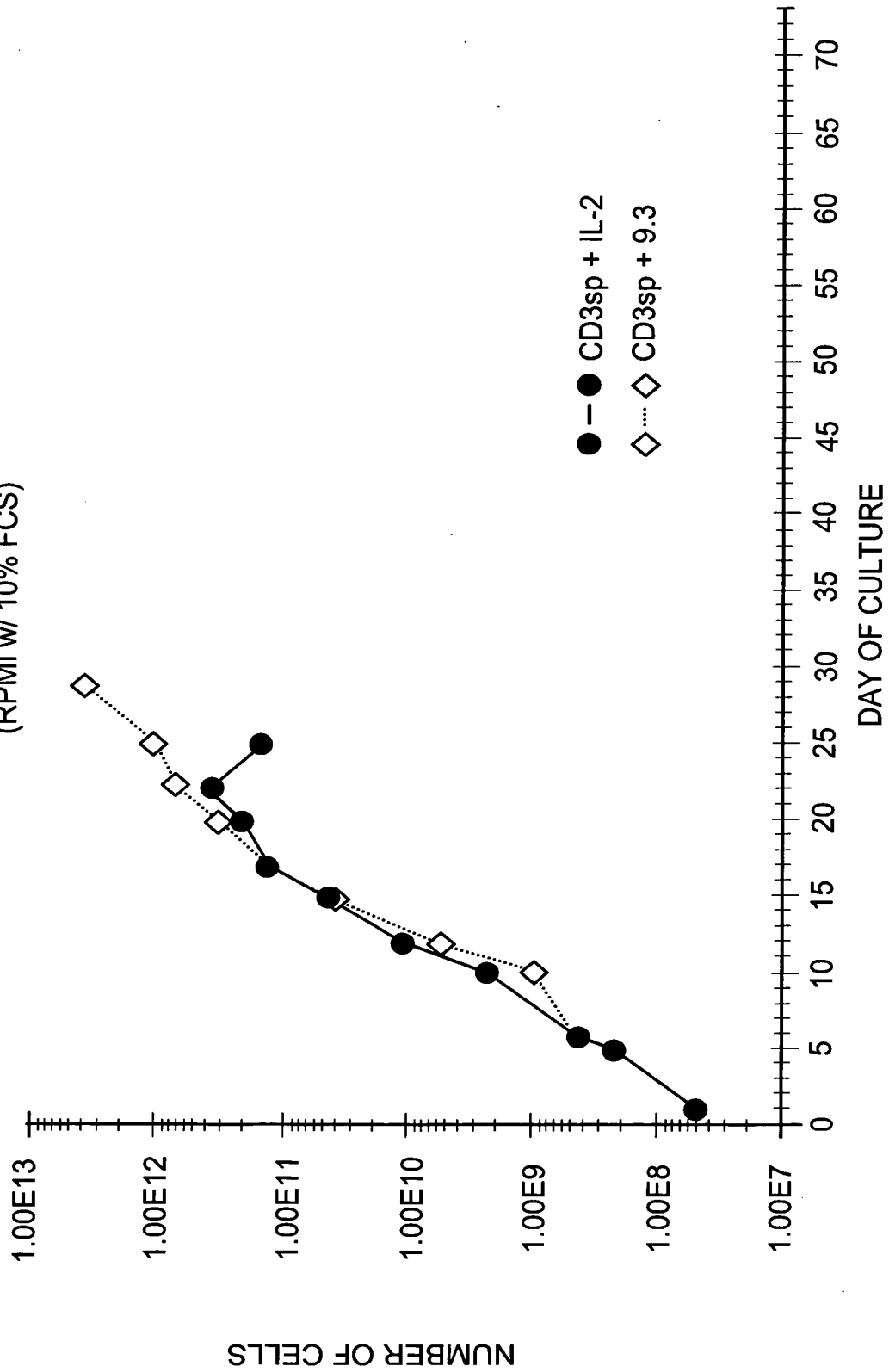


FIG. 2

O.O. FIG.		
APPROVED BY	CLASS	SUBCLASS
DRAFTSMAN		

3/36

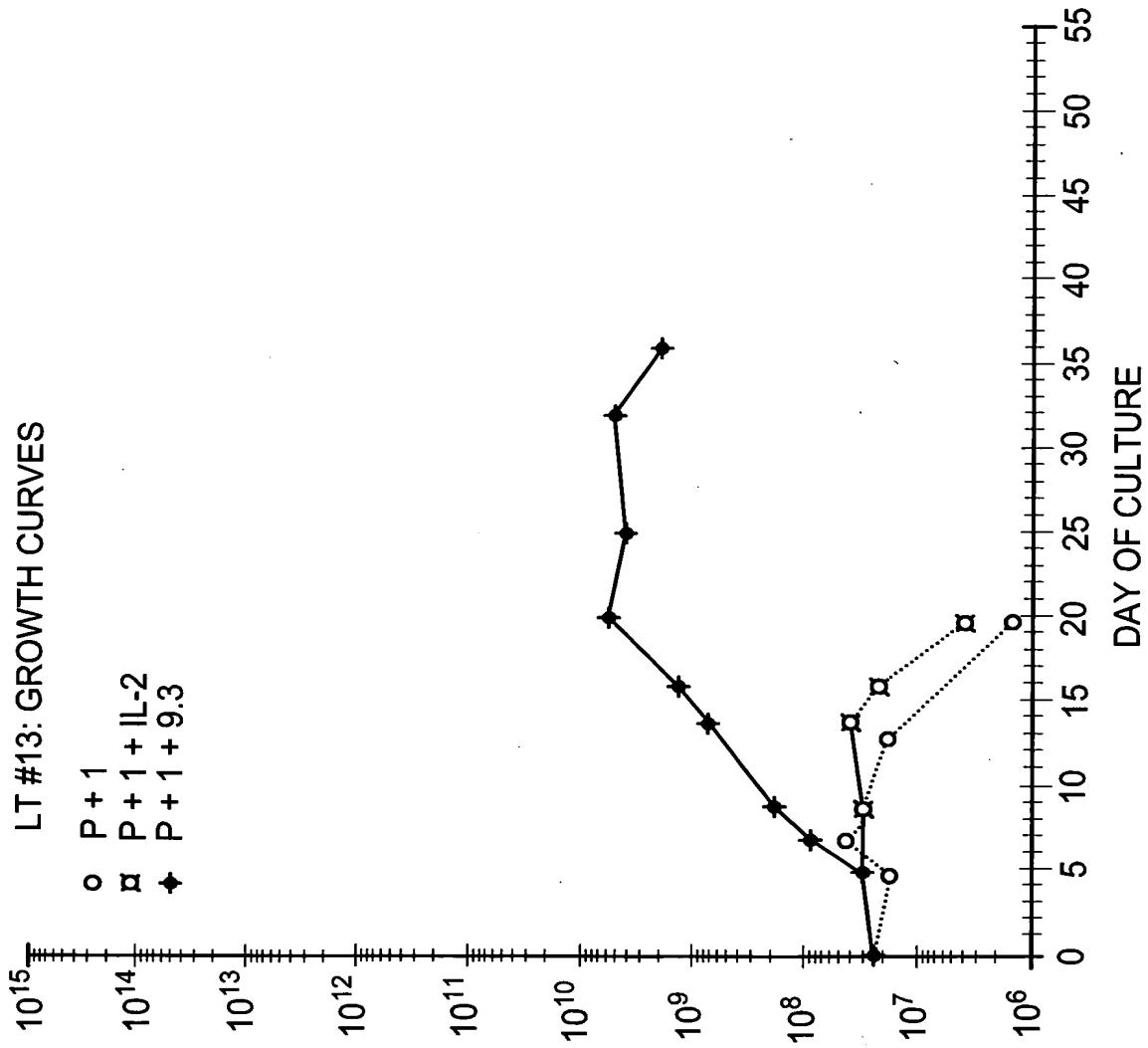


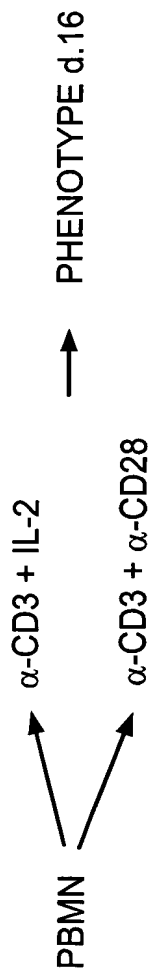
FIG. 3



BY	CLASS	SUBCLASS
DRAFTSMAN		



SELECTIVE OUTGROWTH OF CD4<sup>+</sup> T CELLS DURING  
CD28 STIMULATED T CELL EXPANSION



CULTURE	DAY 0		DAY 16	
	CD4	CD8	CD4	CD8
CD3 + IL-2	30.9	13.9	8.0	84.5
CD3 + CD28			44.6	52.5

FIG. 4

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

CONTROL

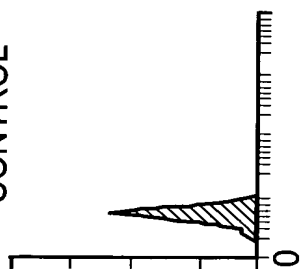


FIG. 5A-1

ANTI-CD3

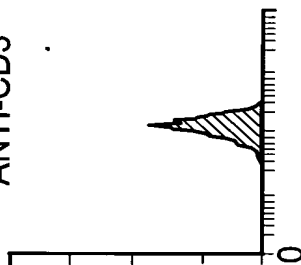


FIG. 5A-2

ANTI-CD4

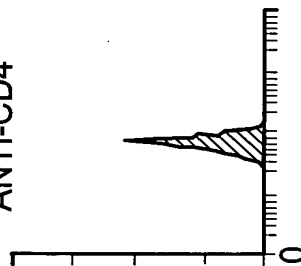


FIG. 5A-3

ANTI-CD8

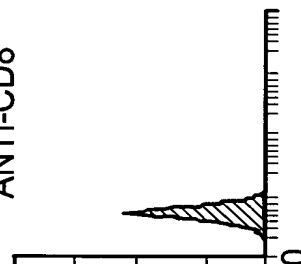


FIG. 5A-4

CD3 + CD28 DRIVEN  
CELLS, DAY 26

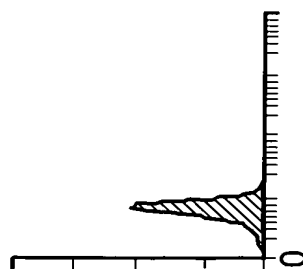


FIG. 5B-1

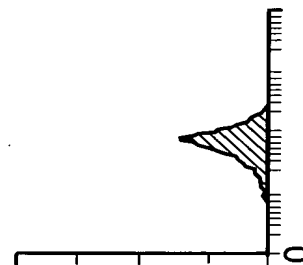


FIG. 5B-2

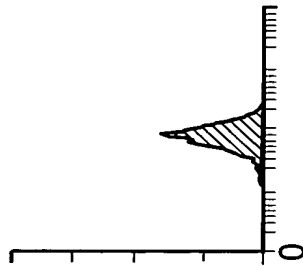


FIG. 5B-3

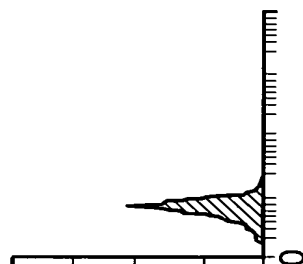


FIG. 5B-4

CD3 + IL-2 DRIVEN  
CELLS, DAY 26

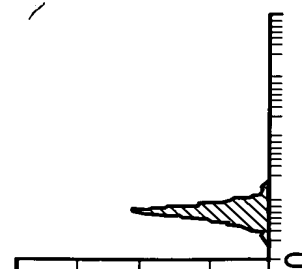


FIG. 5C-1

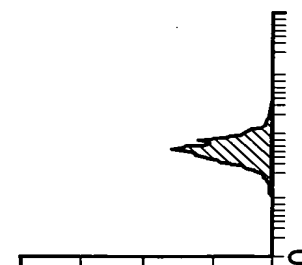


FIG. 5C-2

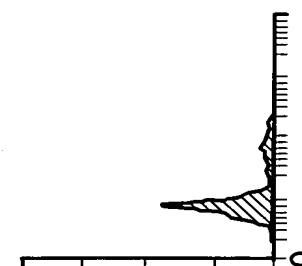


FIG. 5C-3

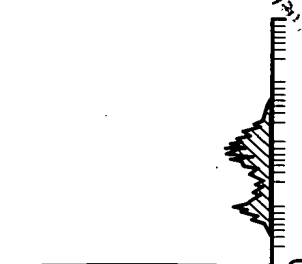


FIG. 5C-4



mAb EX5.3D10

CHO-DG44 CELLS

CHO-hh CELLS

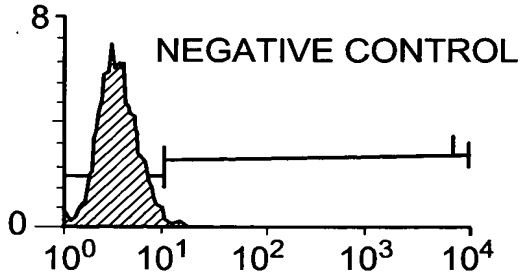


FIG. 6A-1

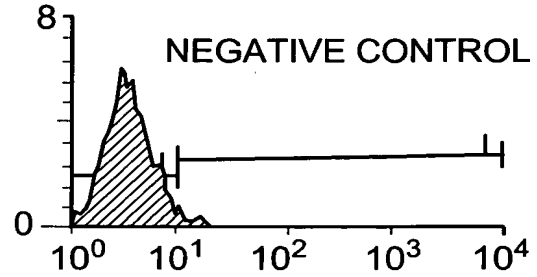


FIG. 6B-1

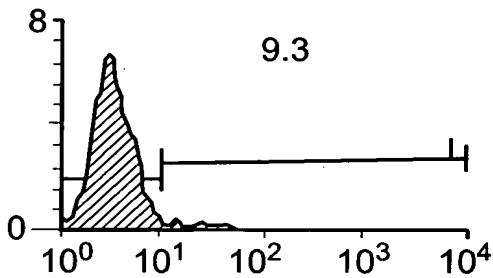


FIG. 6A-2

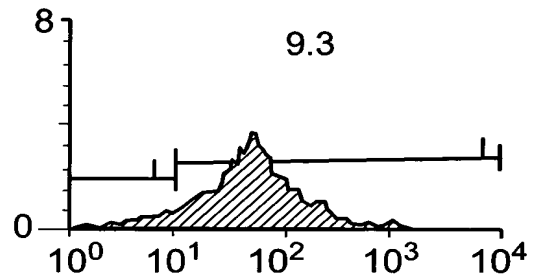


FIG. 6B-2

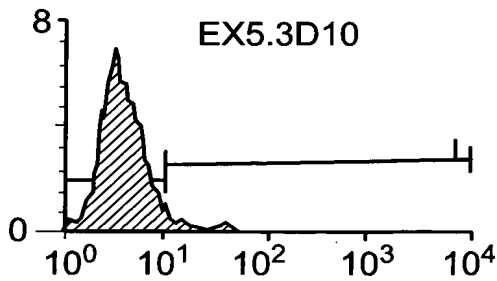


FIG. 6A-3

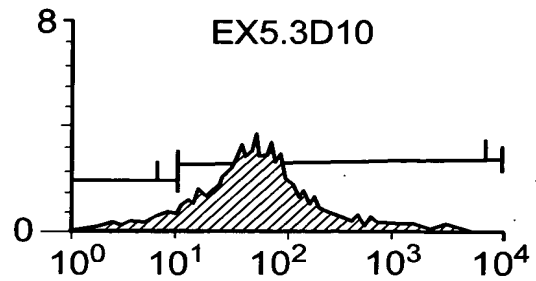


FIG. 6B-3

APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS



APPROVED BY DRAFTSMAN	O.C. FIG.	
	CLASS	SUBCLASS

## UNACTIVATED PBLs

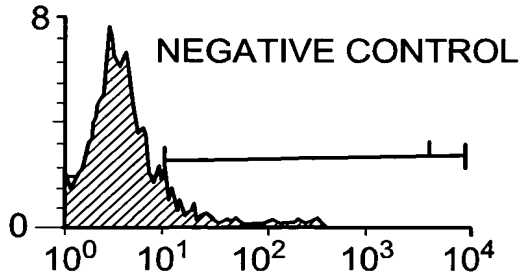


FIG. 6C-1

## JURKAT #7 CELLS

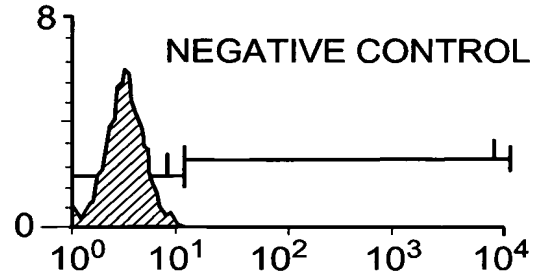


FIG. 6D-1

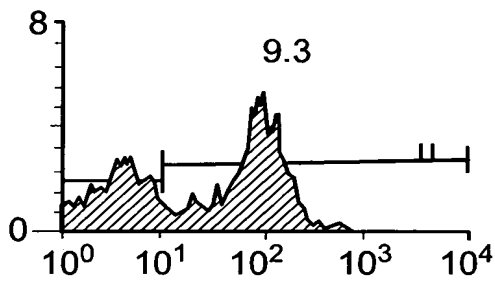


FIG. 6C-2

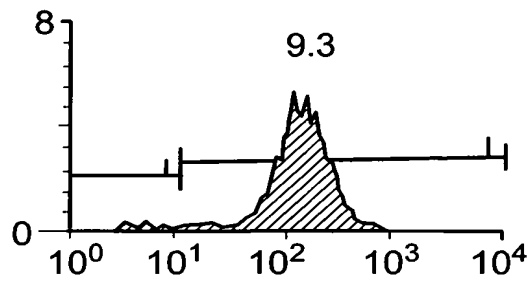


FIG. 6D-2

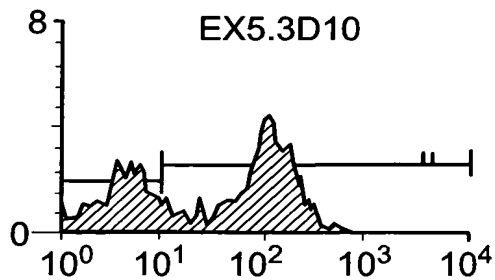


FIG. 6C-3

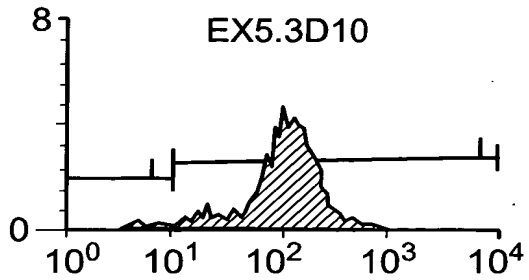
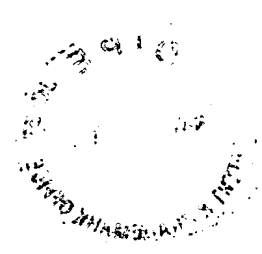


FIG. 6D-3



O.G. FIG.		SUBCLASS
CLASS		
APPROVED BY	DRAFTSMAN	

mAb ES5.2D8  
CHO-DG44 CELLS

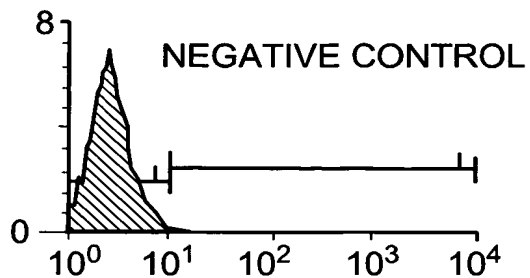


FIG. 7A-1

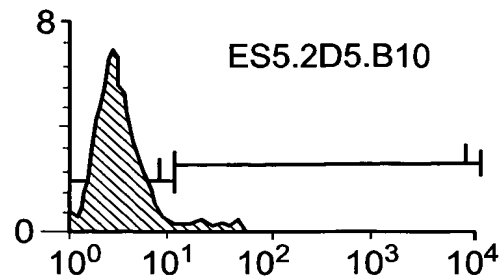


FIG. 7A-2

CHO-105A CELLS

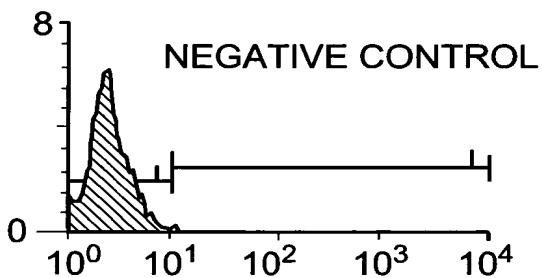


FIG. 7B-1

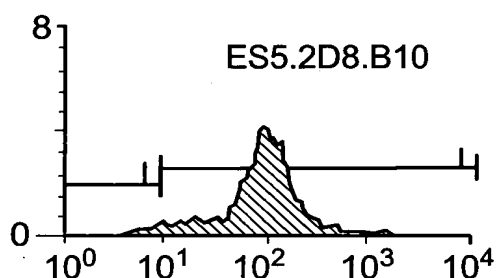


FIG. 7B-2

hPBLs:

UNACTIVATED

PMA ACTIVATED

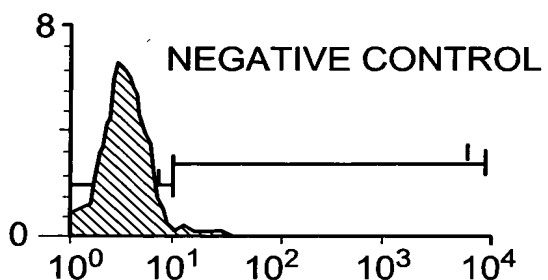


FIG. 7C

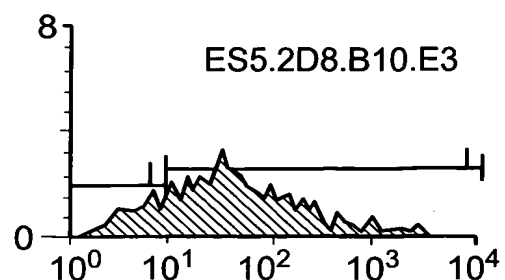


FIG. 7D



9/36



O.G. FIG.	
CLASS	SUBCLASS
APPROVED BY DRAFTSMAN	

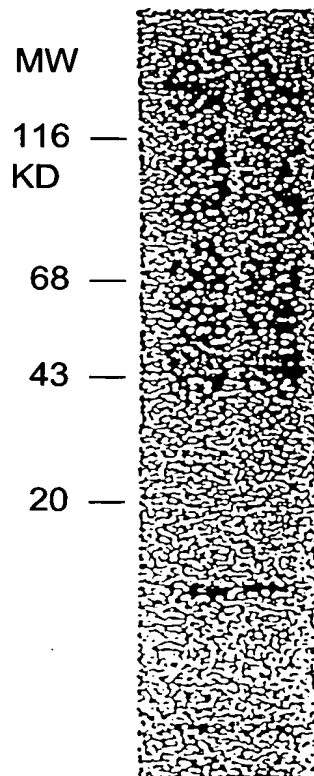
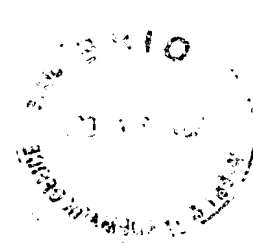


FIG. 8

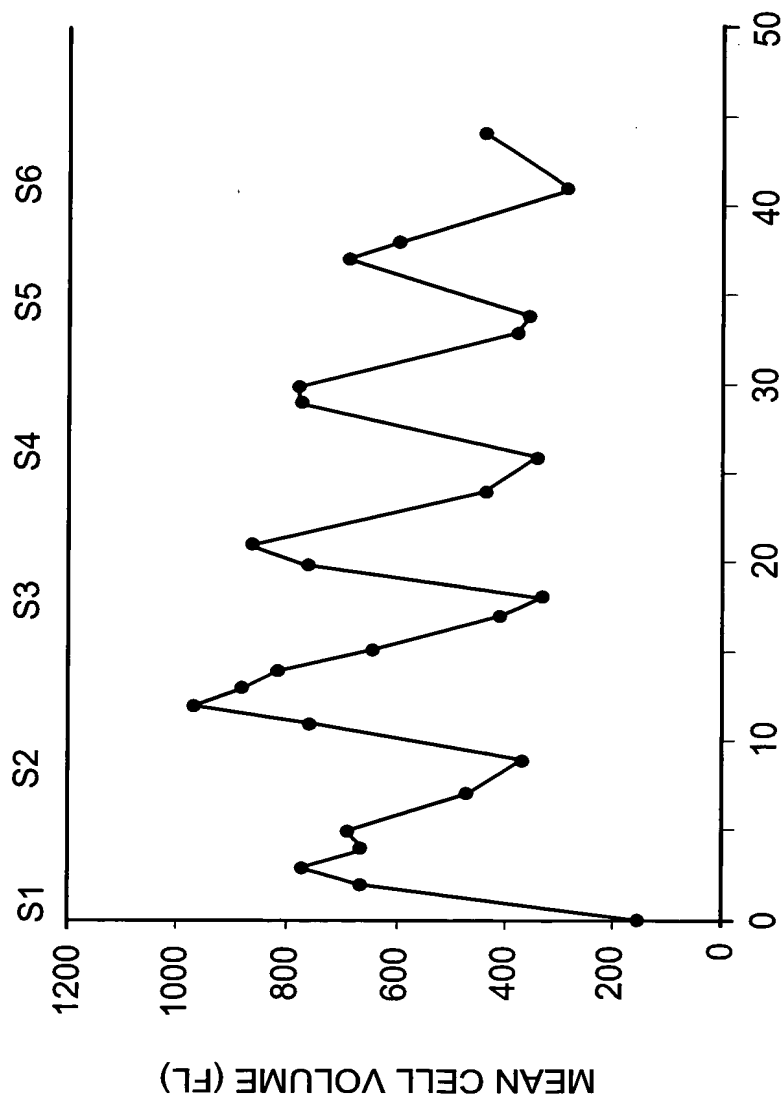
APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

10/36



# USE OF CELL SIZING TO PROPAGATE

CD4<sup>+</sup> T CELLS

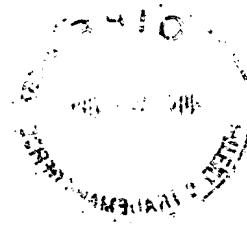


CELLS: CD28<sup>+</sup>/CD4<sup>+</sup>  
STIMULATION: CD3sp + CD28

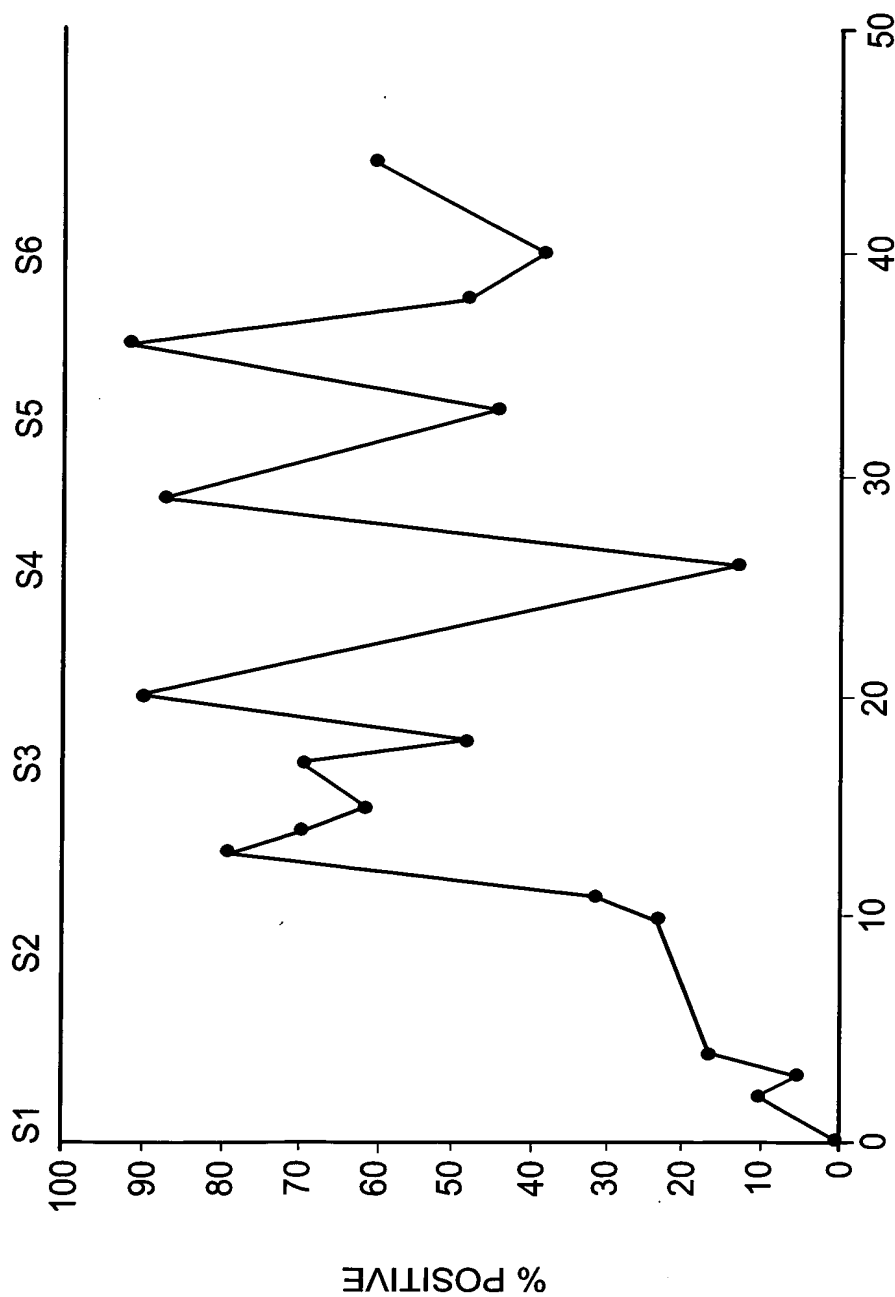
FIG. 9

APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

11/36



# CYCLIC EXPRESSION OF B7 ON CD4<sup>+</sup> T CELLS



DAY OF CULTURE

CELLS: CD4<sup>+</sup>/CD28<sup>+</sup>  
STIMULATION: CD3sp + CD28

FIG. 10

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

12/36

# CYTOKINE ACCUMULATION IN CULTURE SUPERNATANTS

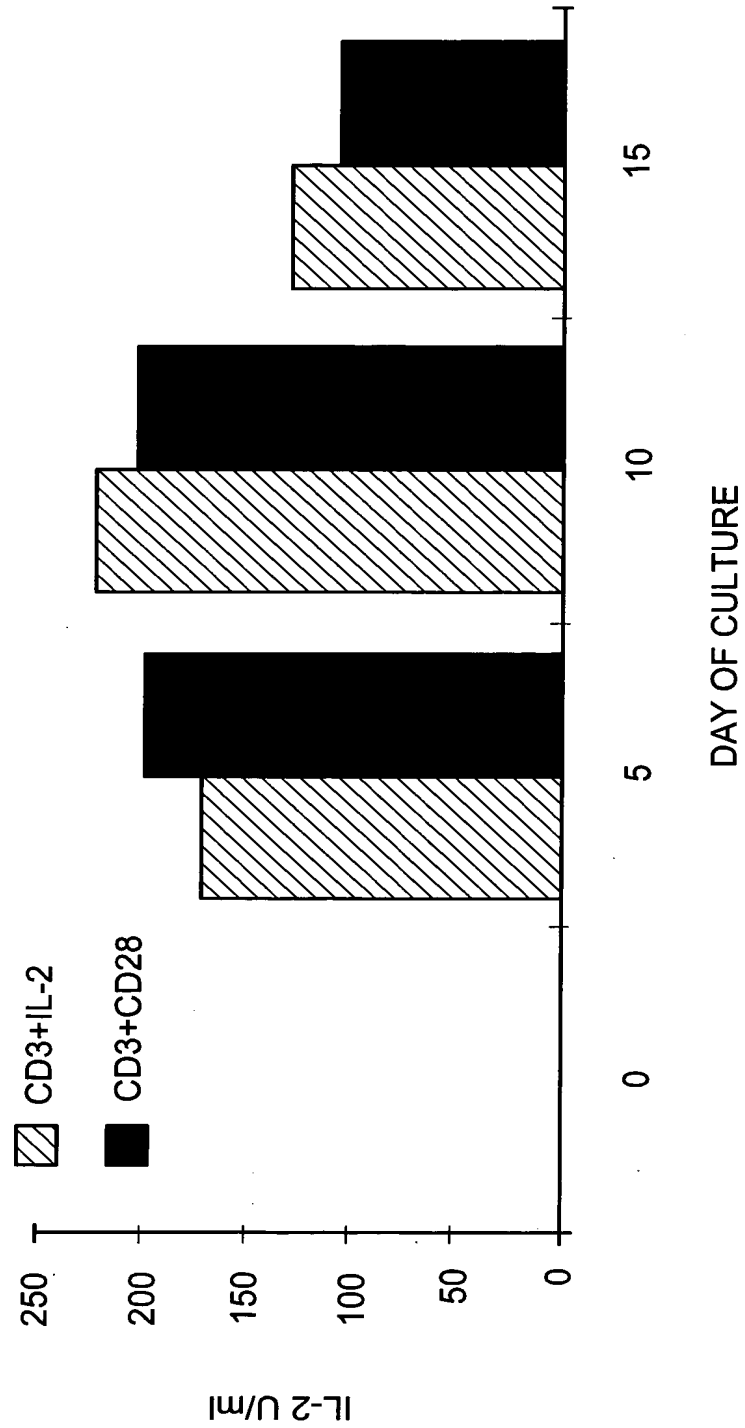


FIG. 11



APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

13/36

CYTOKINE ACCUMULATION IN  
CULTURE SUPERNATANTS

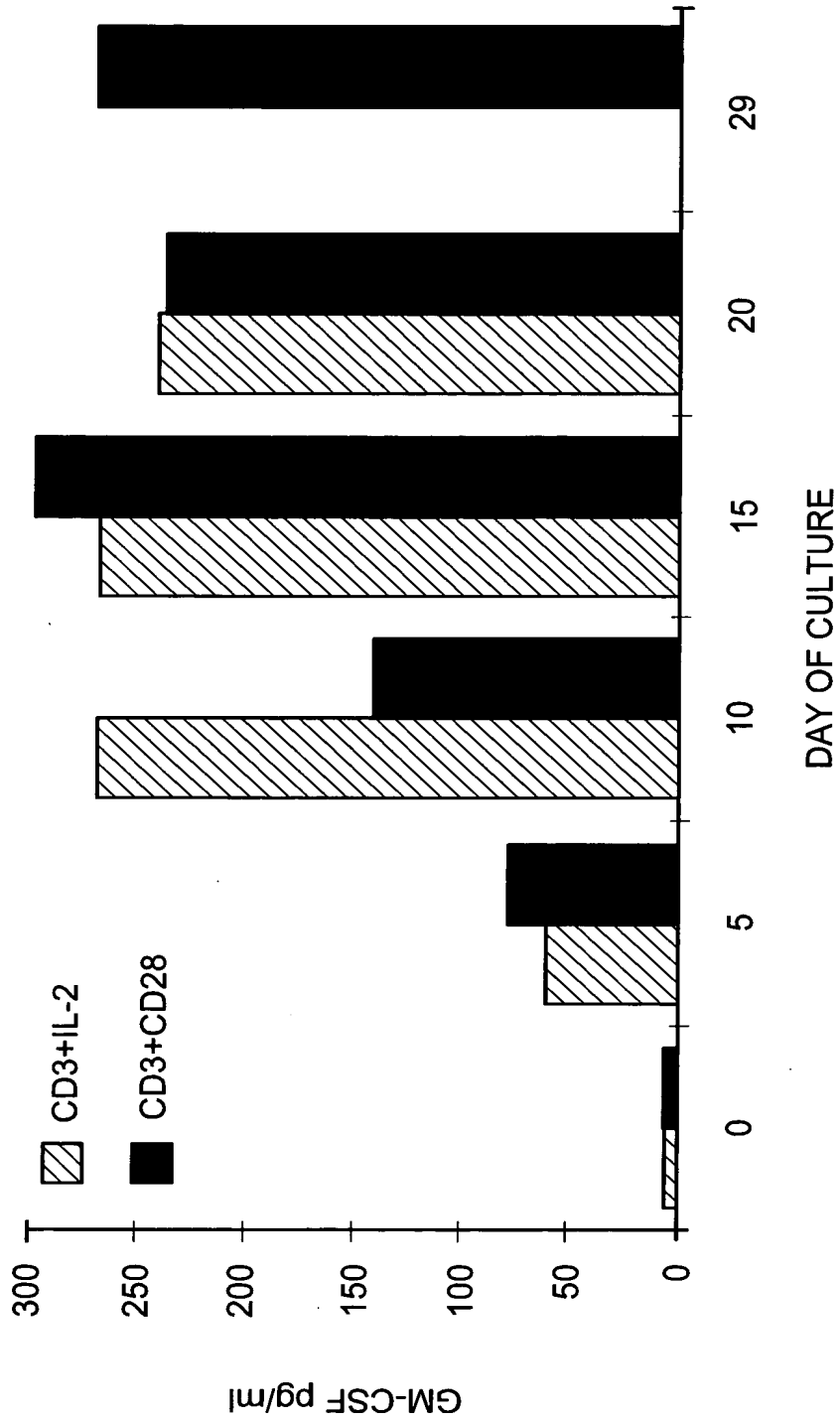


FIG. 12



O.G. FIG.		
APPROVED	CLASS	SUBCLASS
BY		
DRAFTSMAN		

14/36

CYTOKINE ACCUMULATION IN  
CULTURE SUPERNATANTS

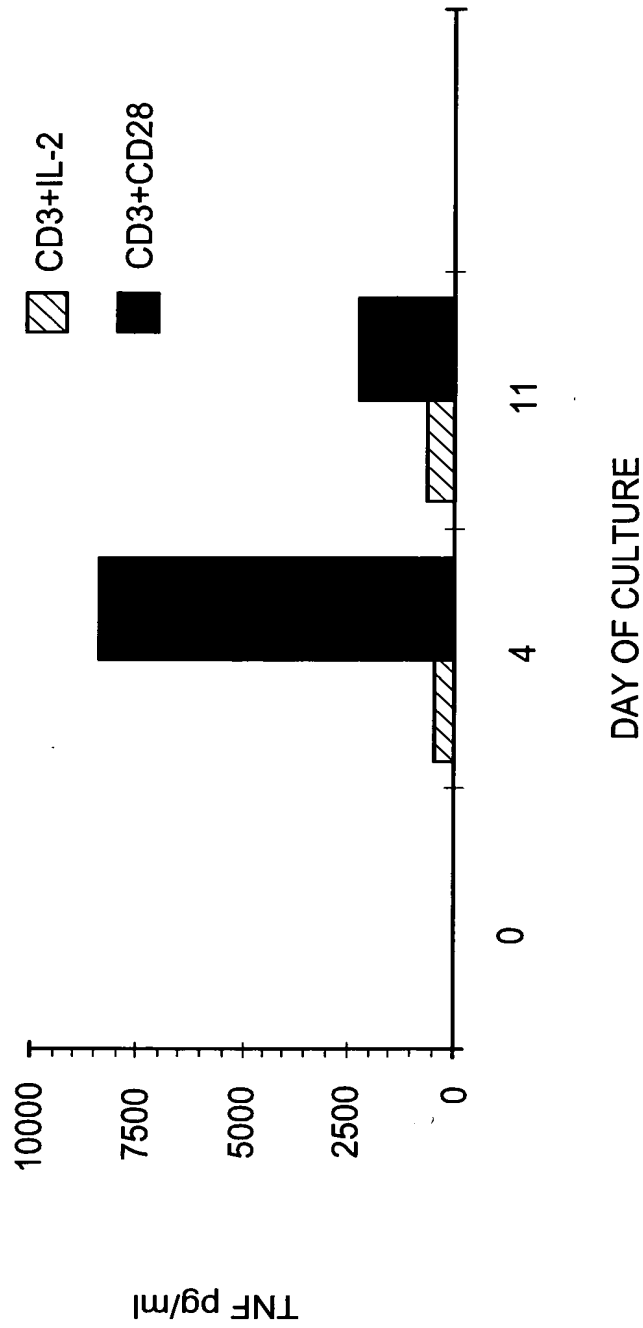
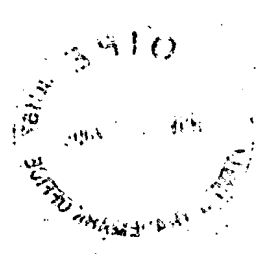


FIG. 13



O.G. FIG.		
APPROVED	BY	CLASS
DRAFTSMAN		SUBCLASS

15/36

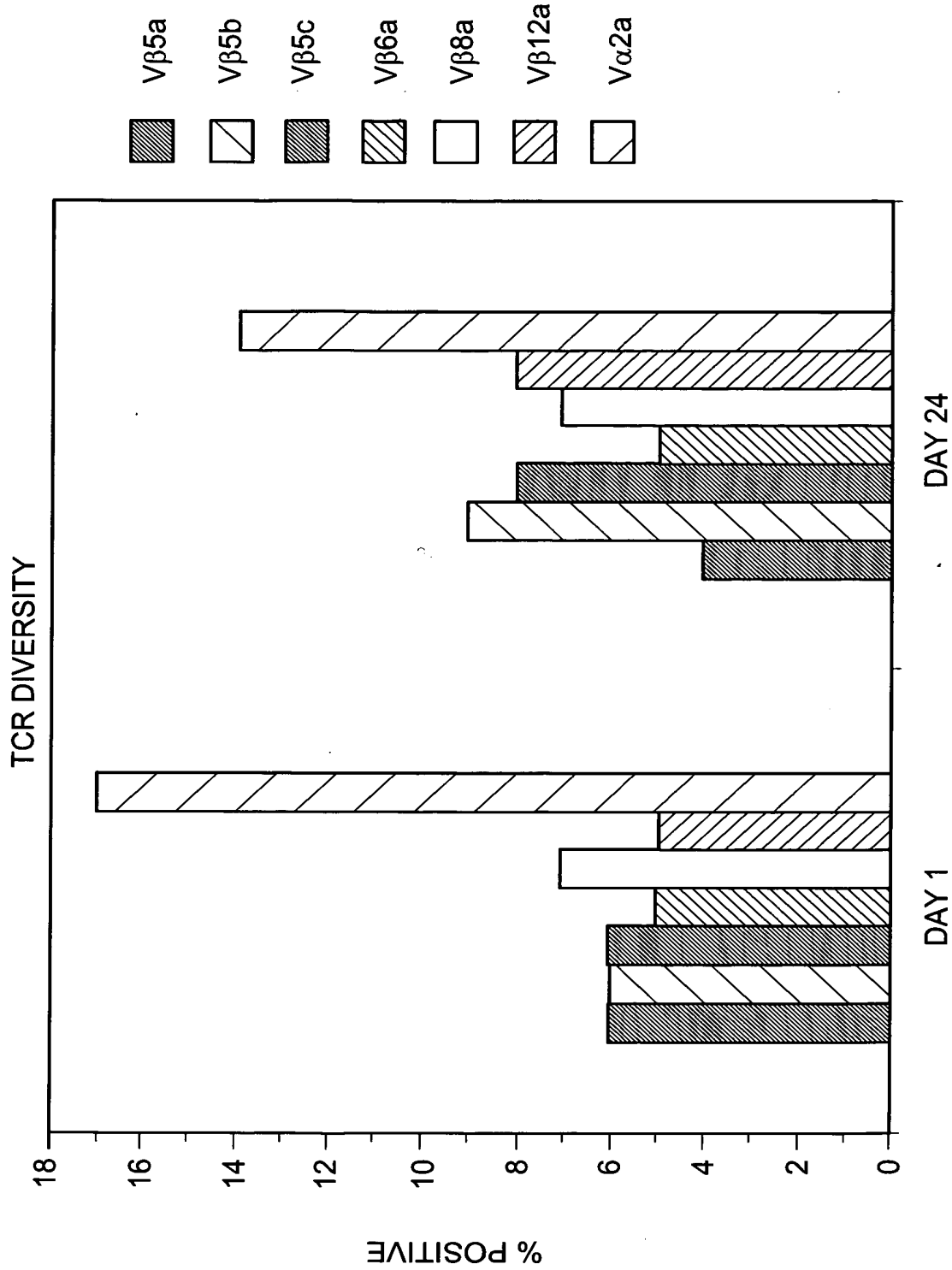


FIG. 14

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

16/36

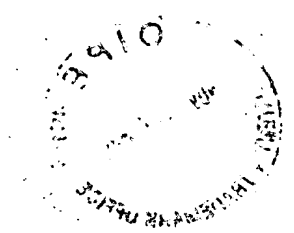
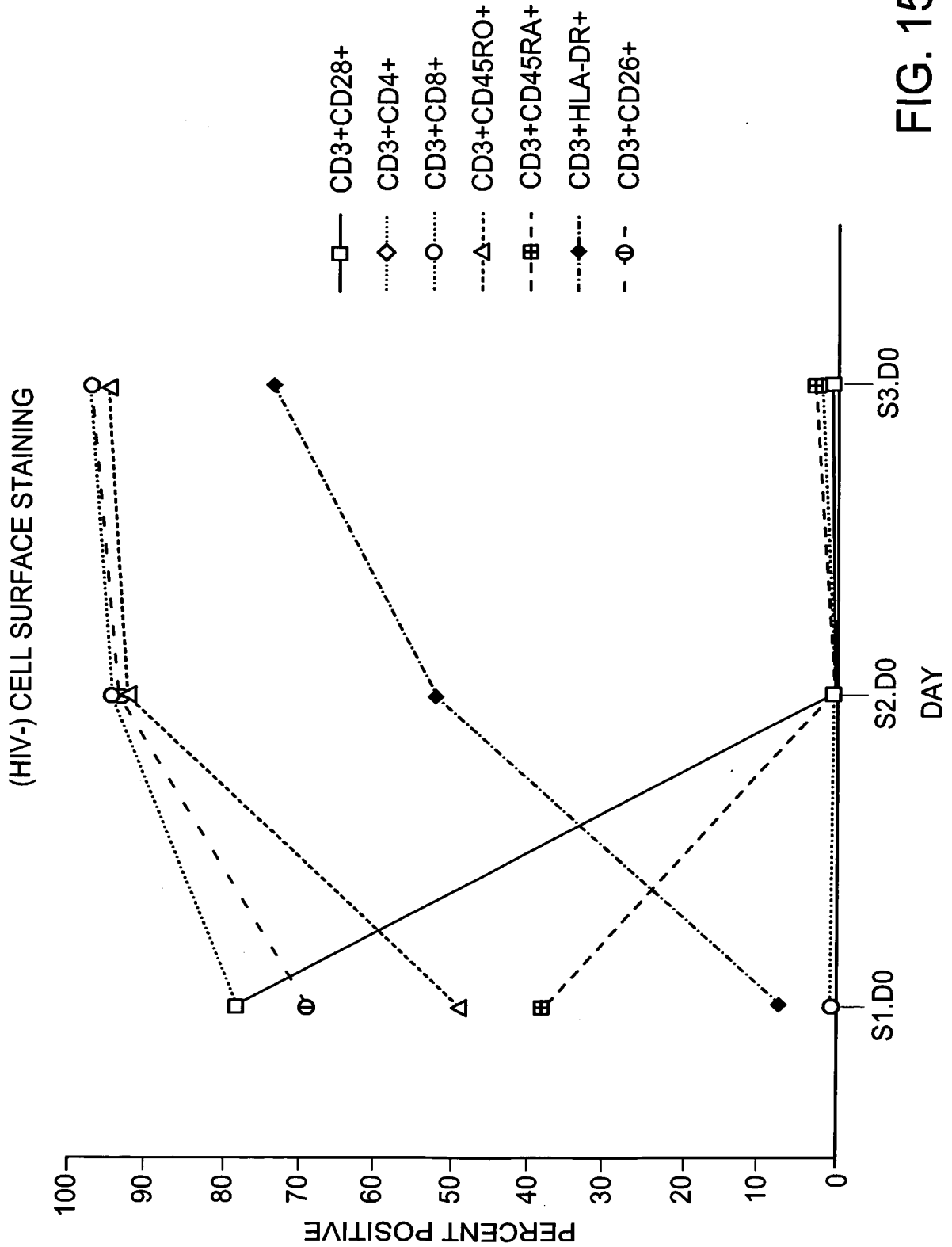


FIG. 15





APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

17/36

(HIV+) CELL SURFACE STAINING

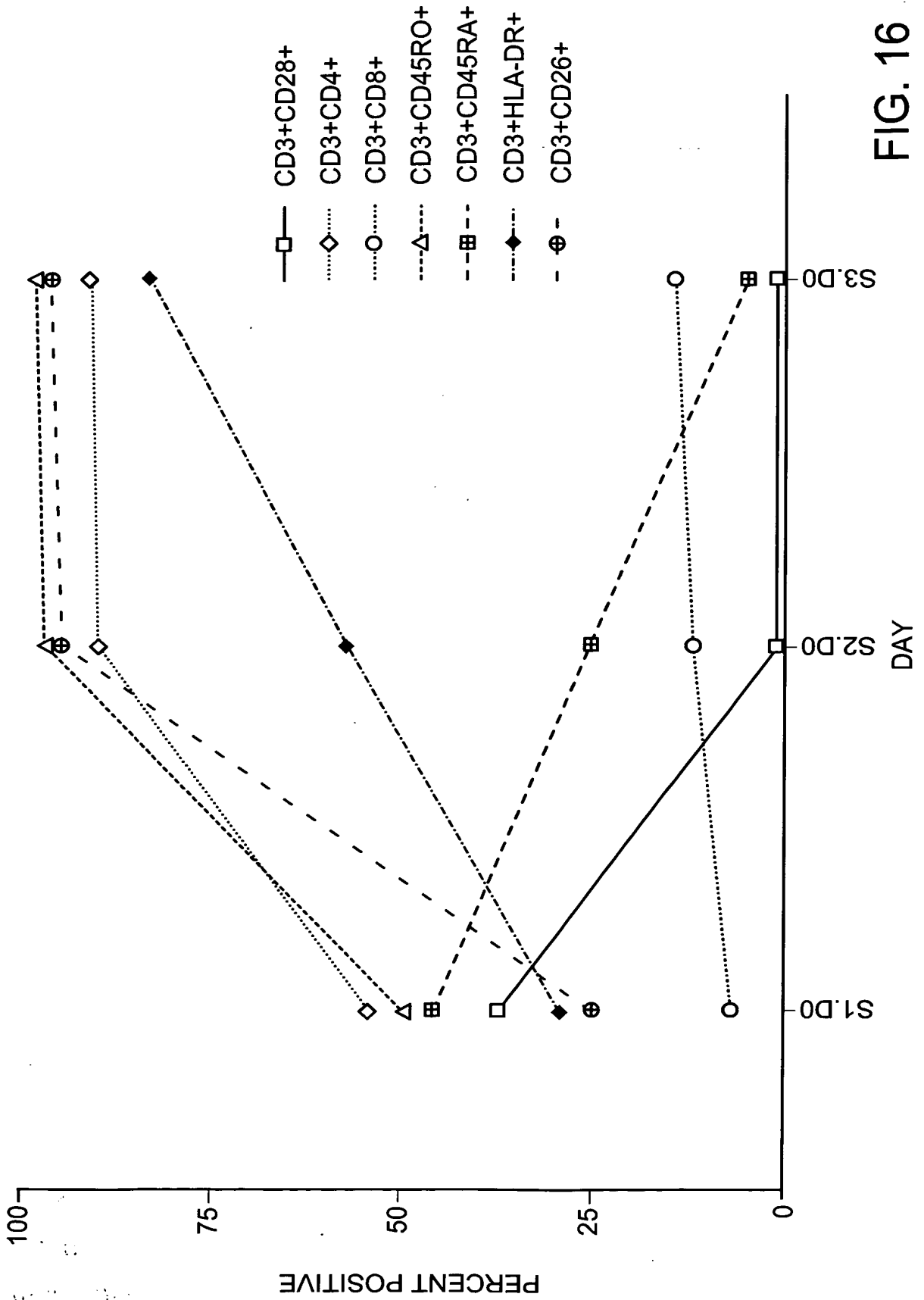
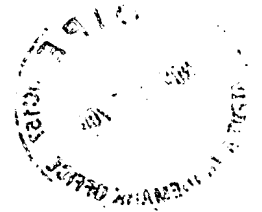
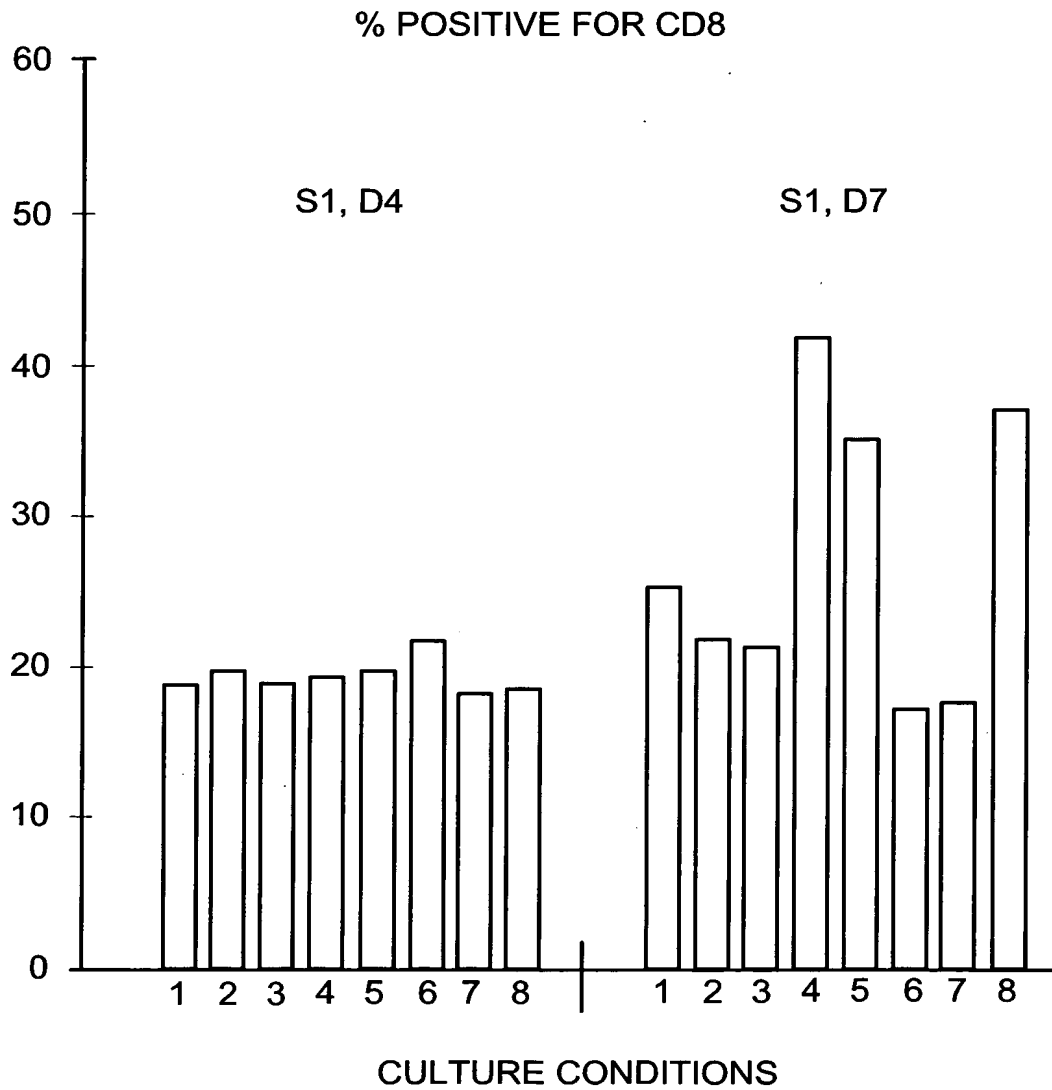


FIG. 16





APPROVED BY DRAFTSMAN	O.G. FIG.	SUBCLASS
	CLASS	

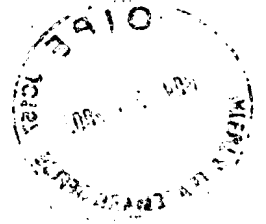
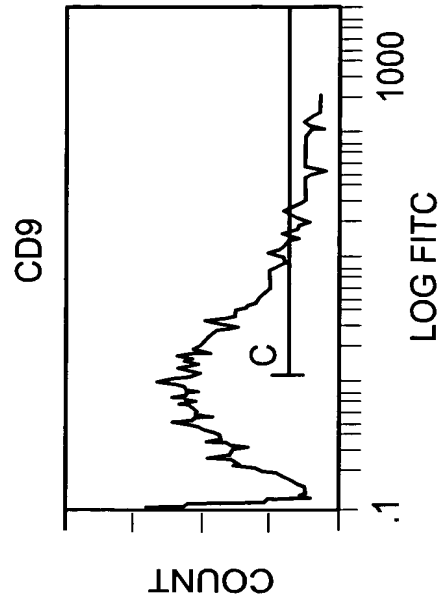
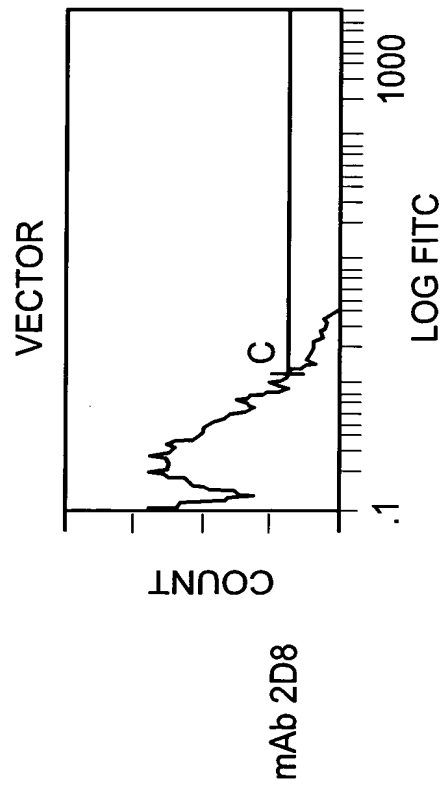
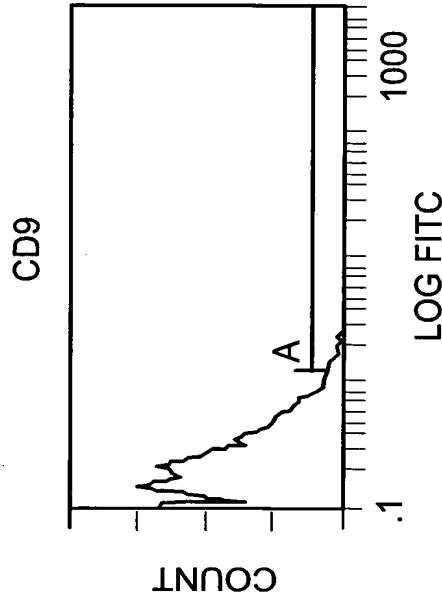
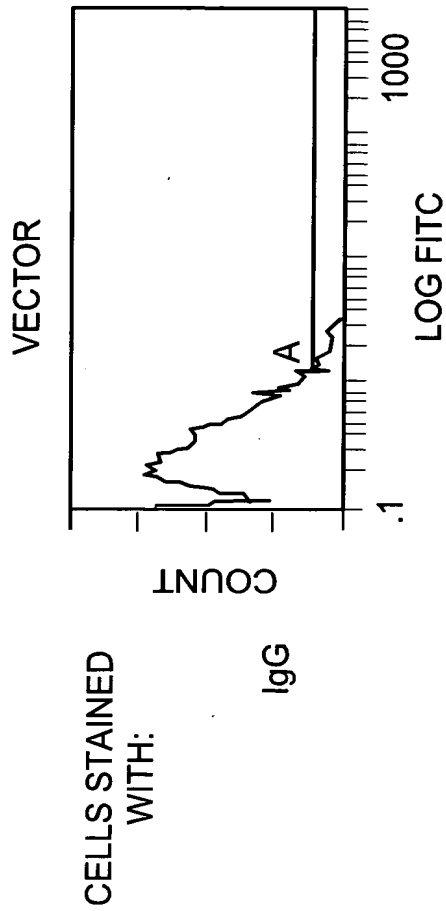


- #1: G19-4sp + IL-2
- #2: G19-4sp + 9.3
- #3: G19-4sp + EX5.3D10
- #4: G19-4sp + ES4.2D8
- #5: G19-4sp + 7G11
- #6: G19-4sp + 9.3 + ES4.2D8
- #7: G19-4sp + 9.3 + 7G11
- #8: G19-4sp + ES4 + 7G11

FIG. 17

APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

MOP CELLS TRANSFECTED WITH PLASMID ENCODING:



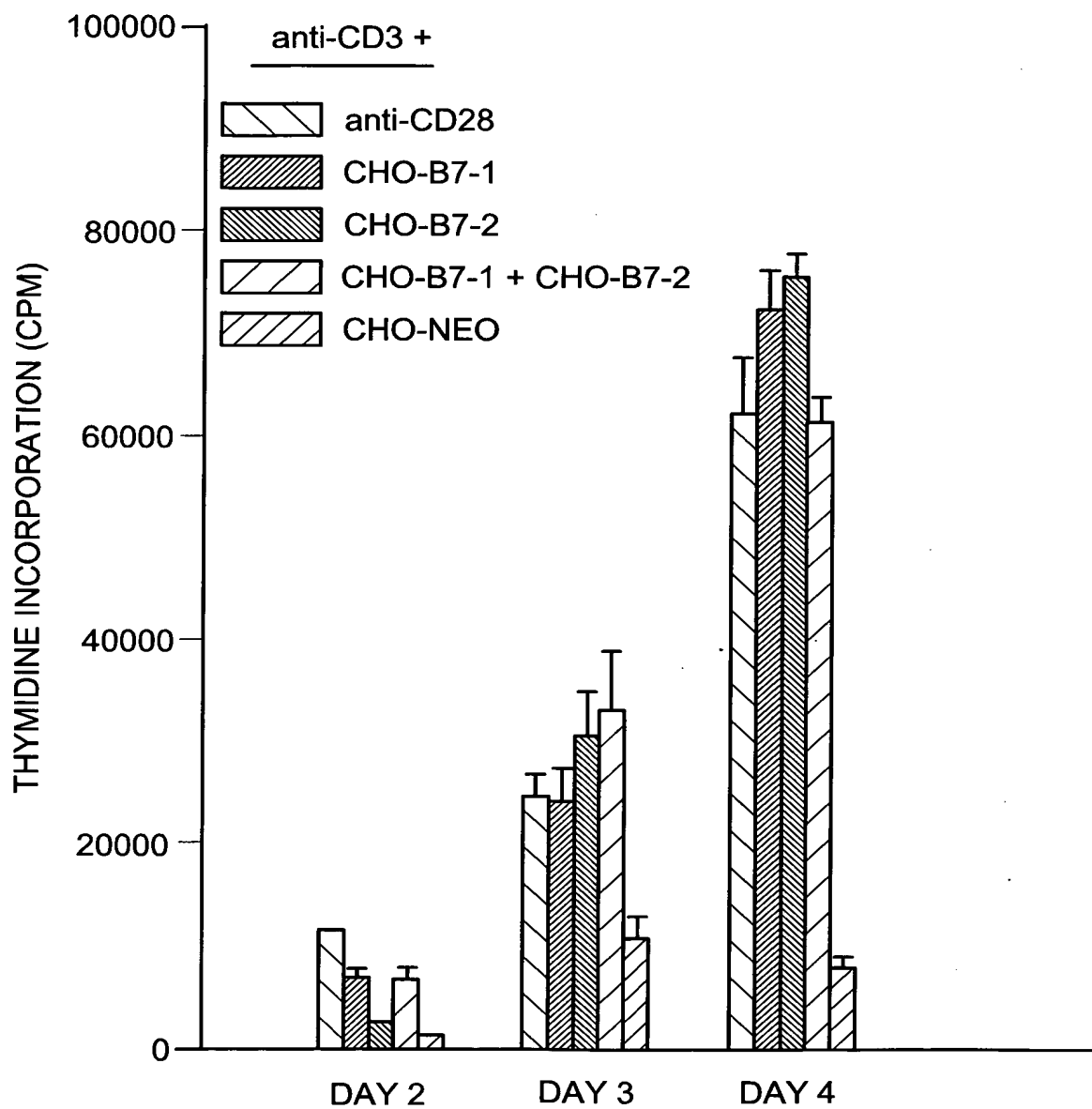
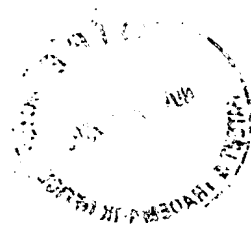


FIG. 19



APPROVED	O.G. FIG.	
	CLASS	SUBCLASS
BY		
DRAFTSMAN		

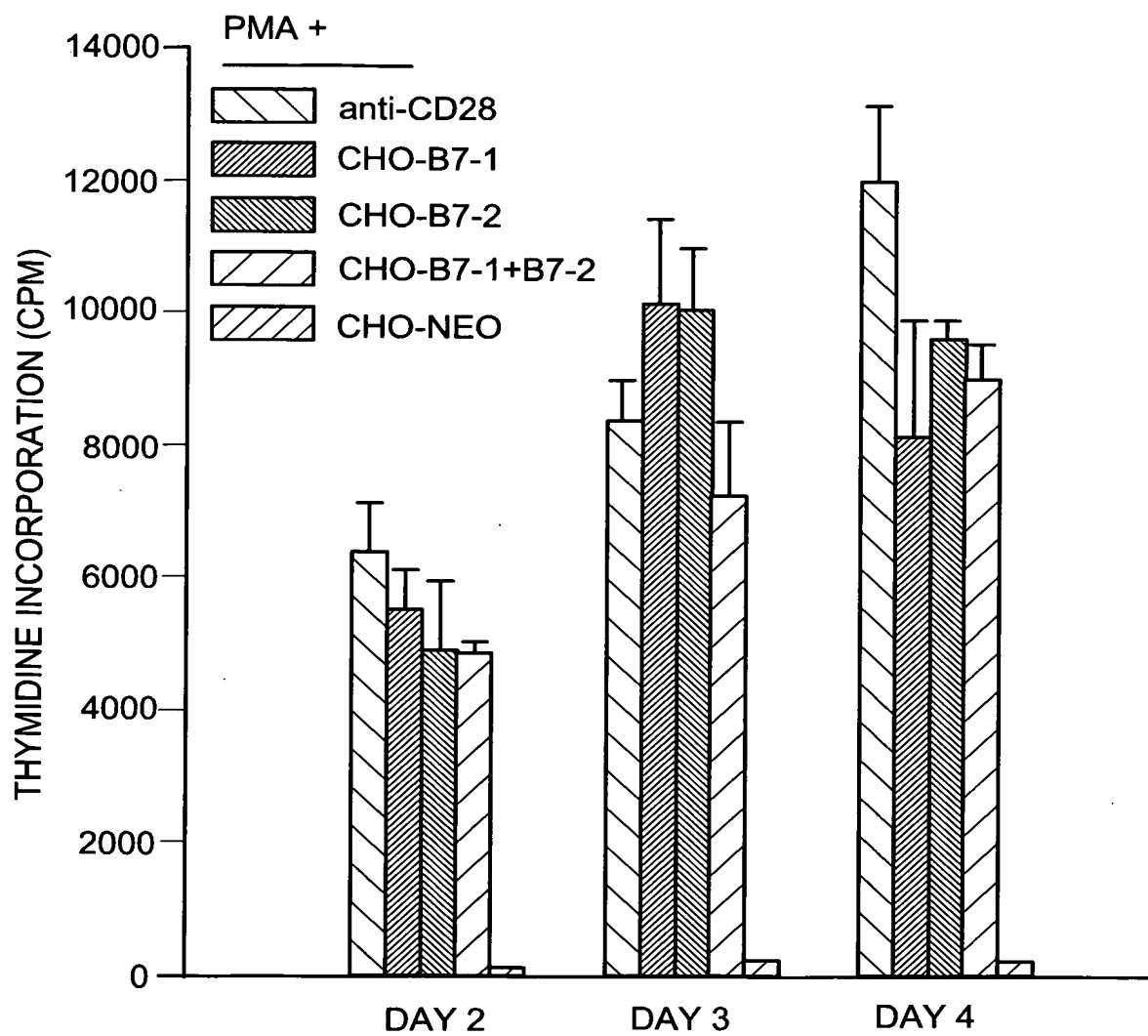


FIG. 20

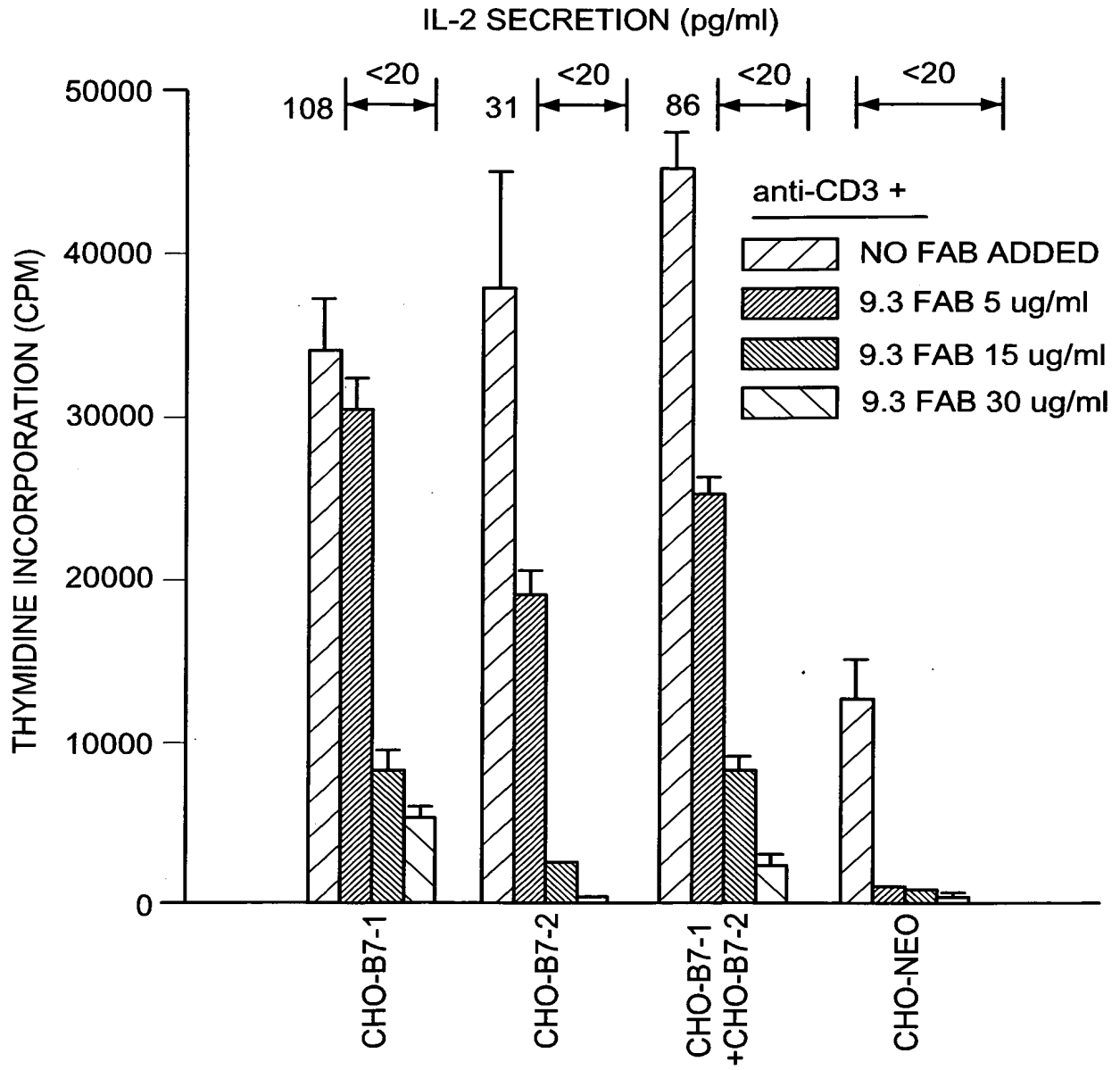
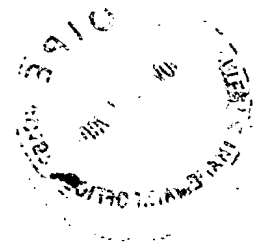


FIG. 21



APPROVED	O.G. FIG.	
	CLASS	SUBCLASS
BY		
DRAFTSMAN		

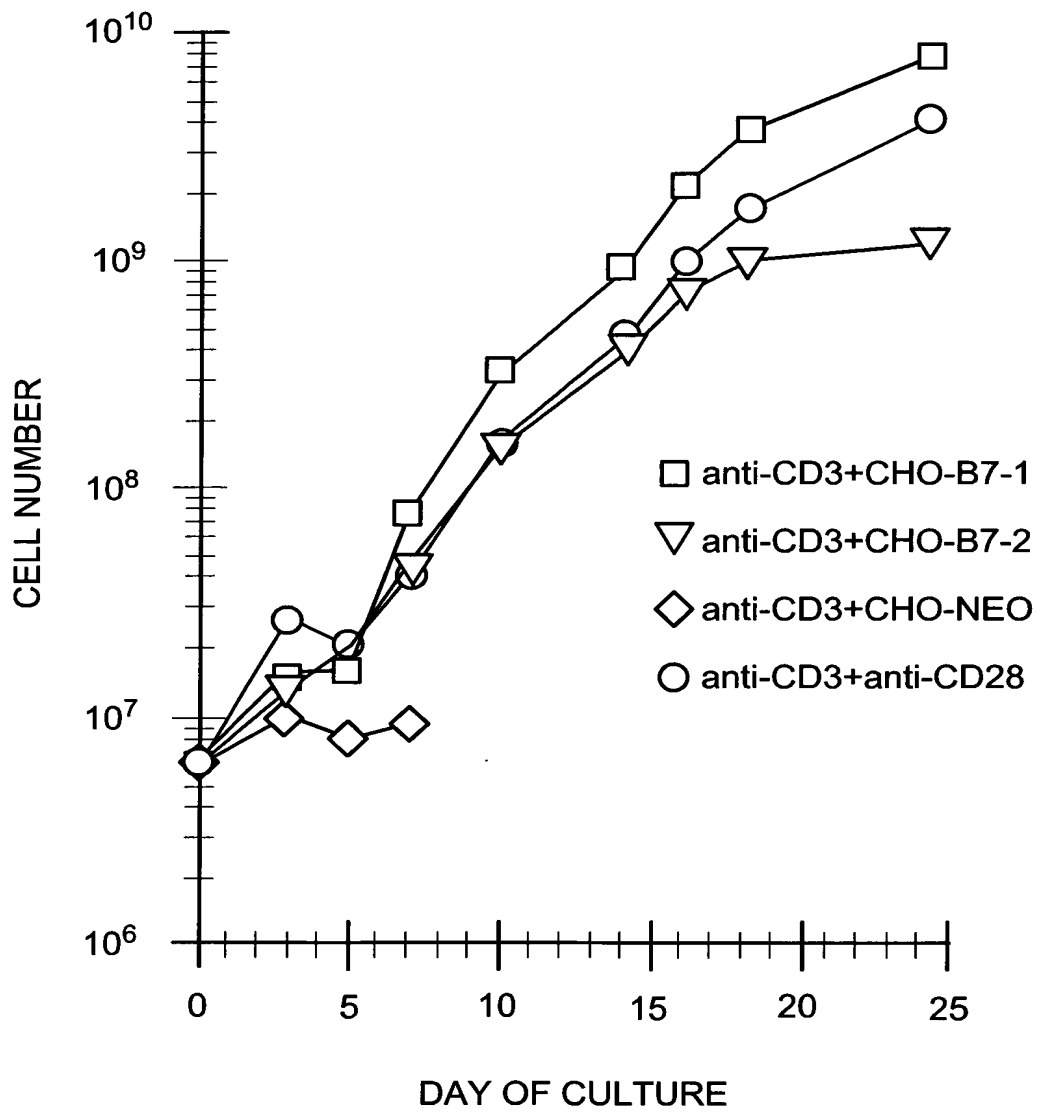


FIG. 22

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

△ OKT3 3b/c+CHO-hB72  
 □ OKT3 3b/c+CHO-hB71  
 ○ OKT3 3b/c+CHO-neo

CD4<sup>+</sup> T CELLS

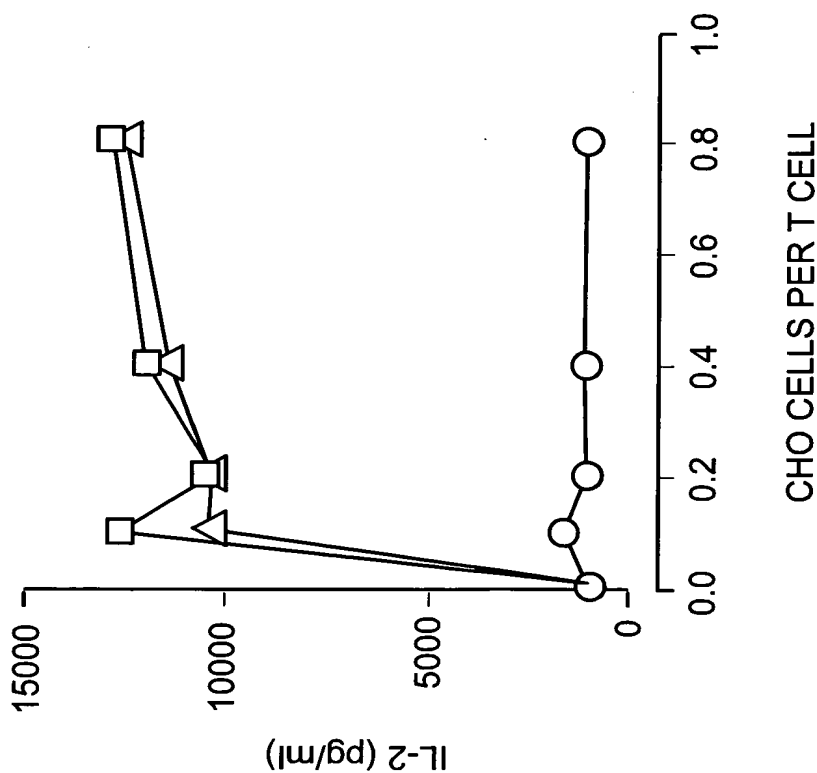


FIG. 23A

△ OKT3 3b/c+CHO-hB72  
 □ OKT3 3b/c+CHO-hB71  
 ○ OKT3 3b/c+CHO-neo

CD4<sup>+</sup> T CELLS

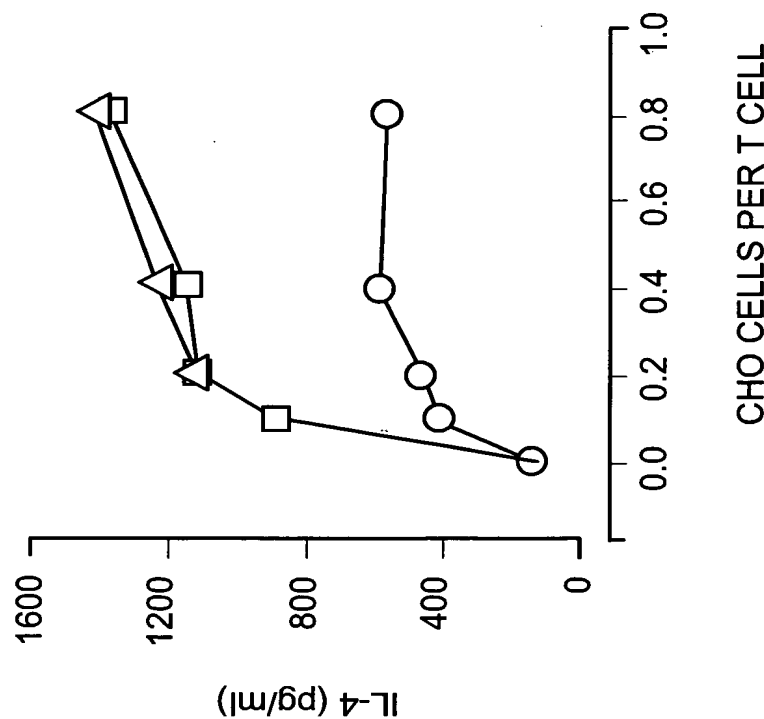


FIG. 23B





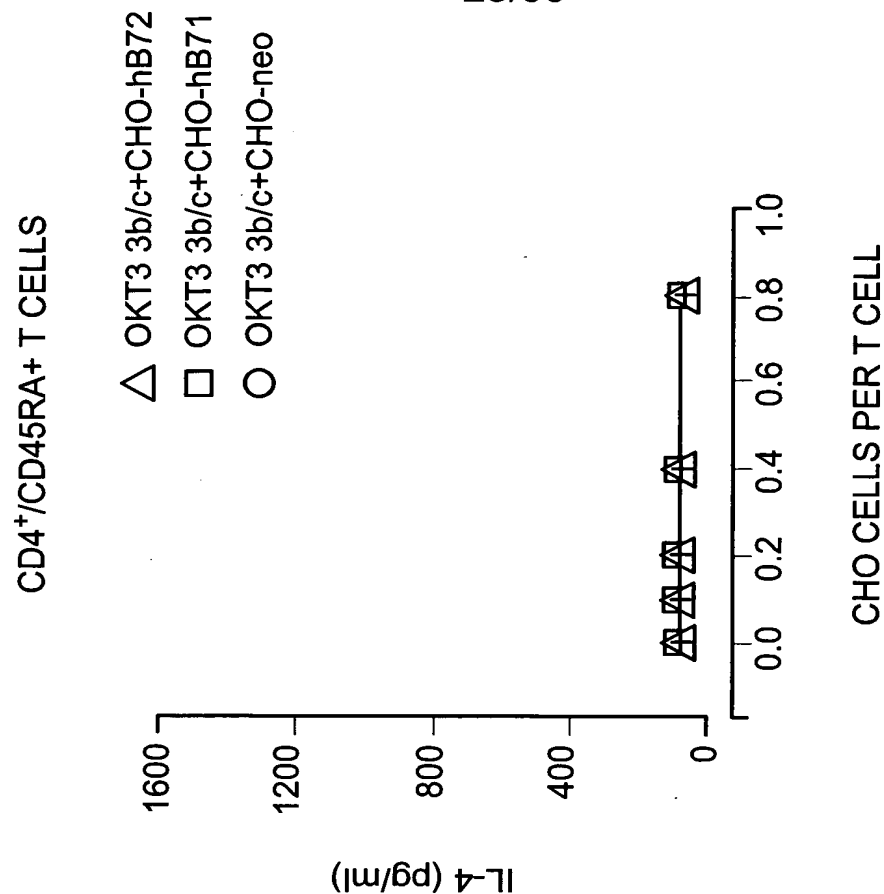


FIG. 23D

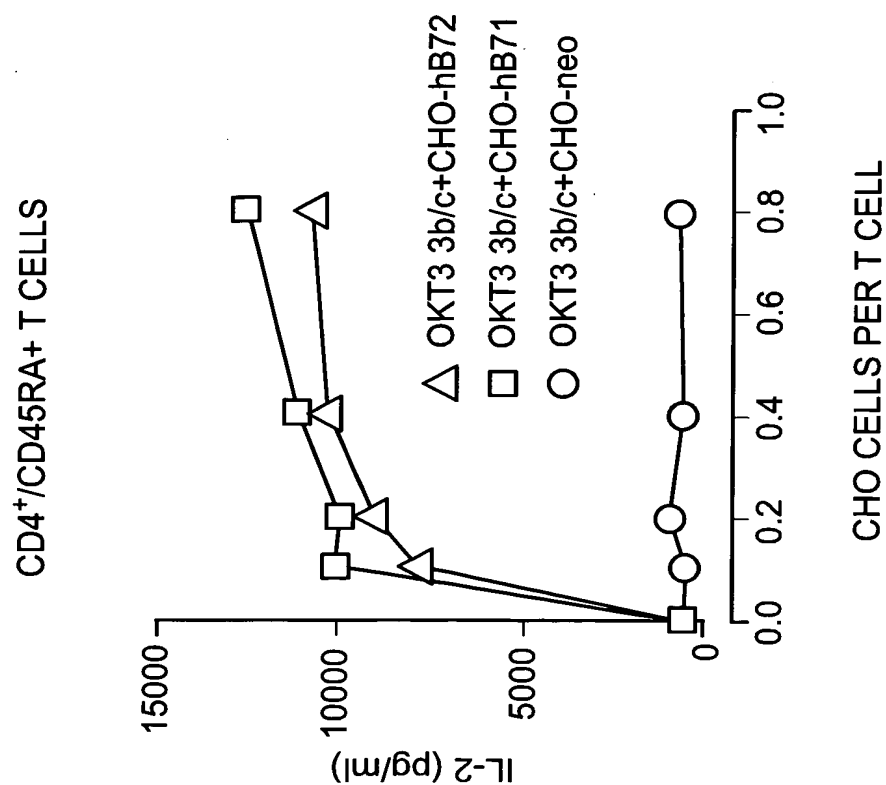
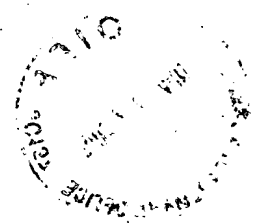


FIG. 23C



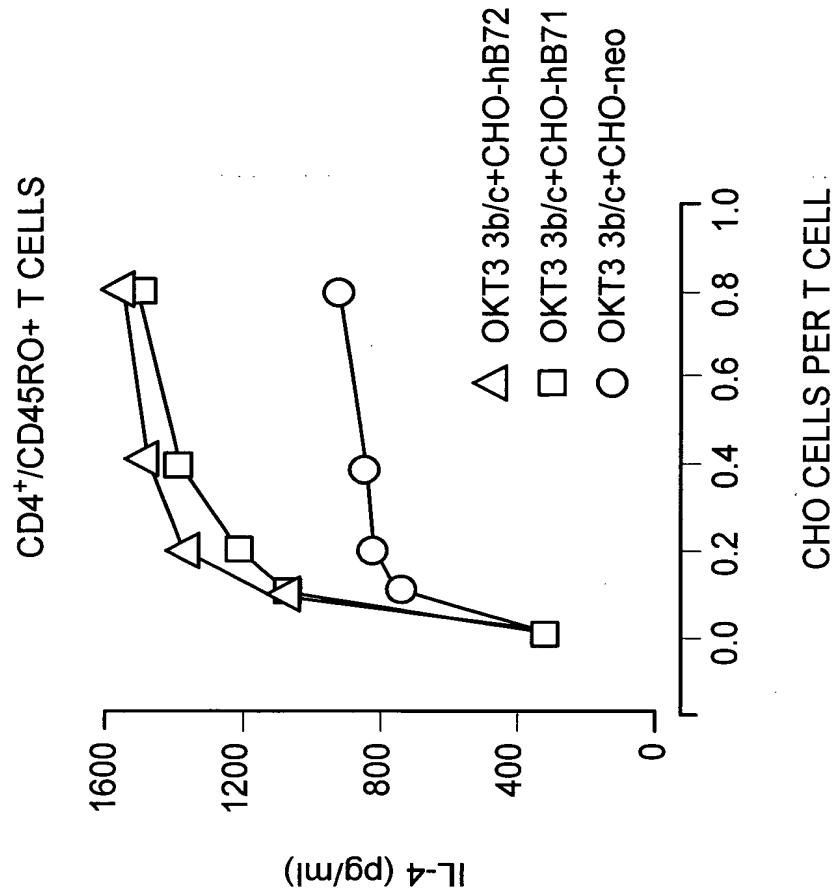


FIG. 23F

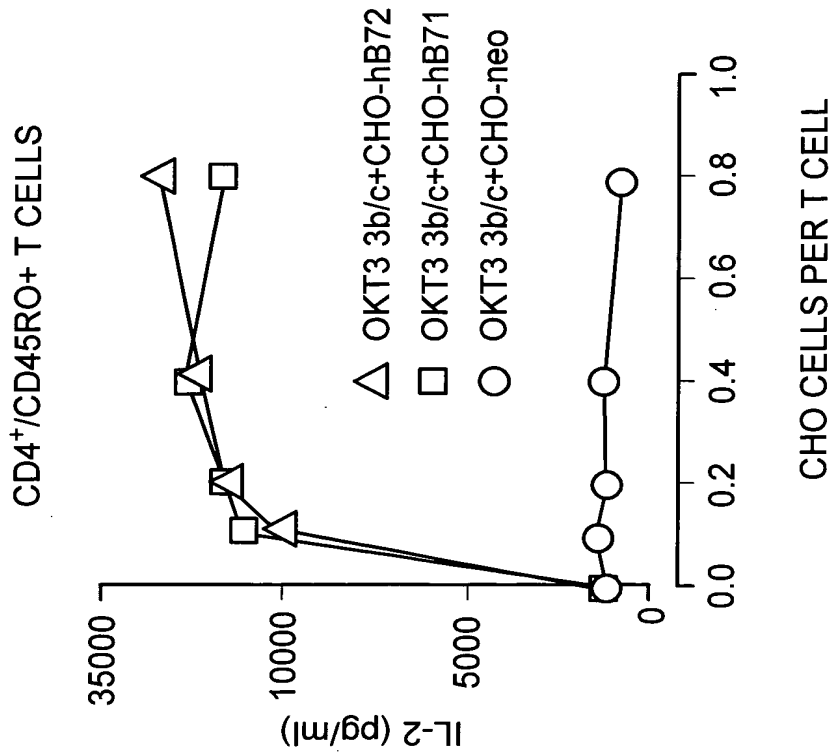


FIG. 23E

2910

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

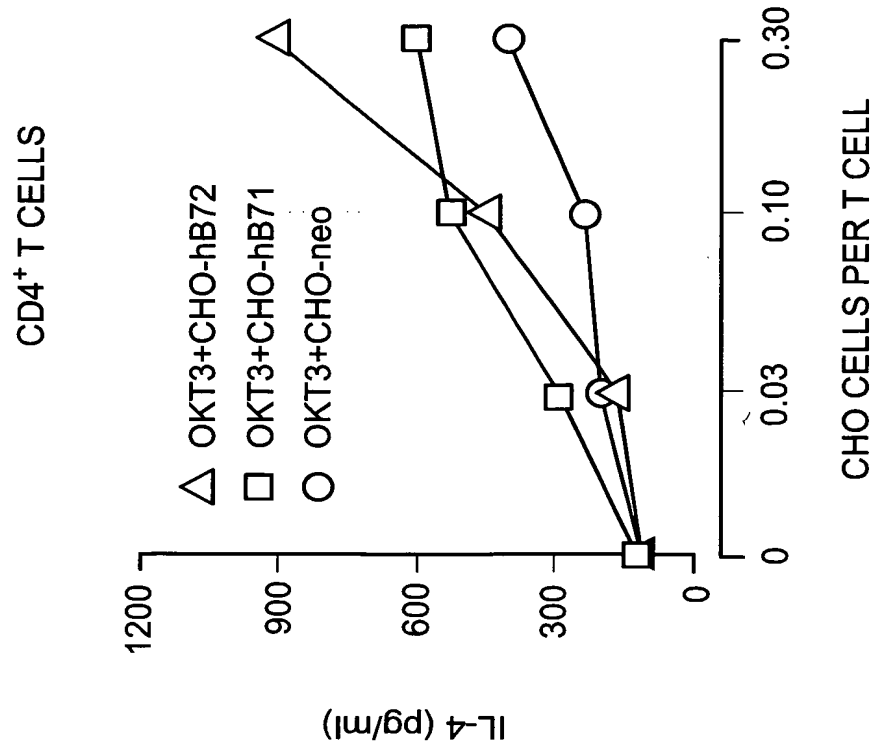


FIG. 24B

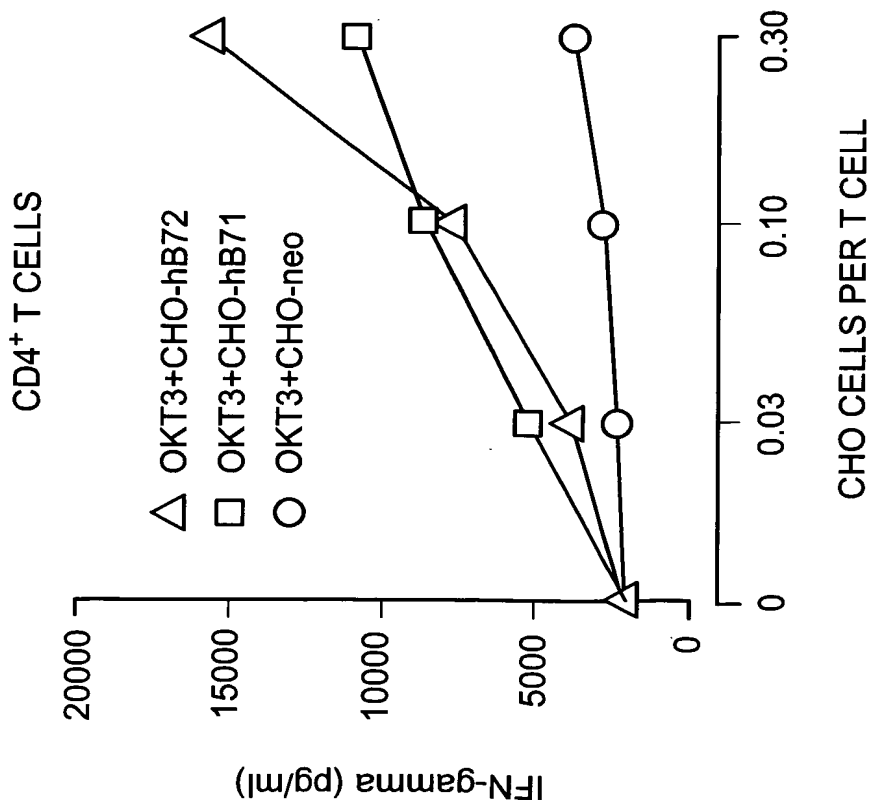


FIG. 24A



CD4<sup>+</sup>/CD45RA<sup>+</sup>T CELLS

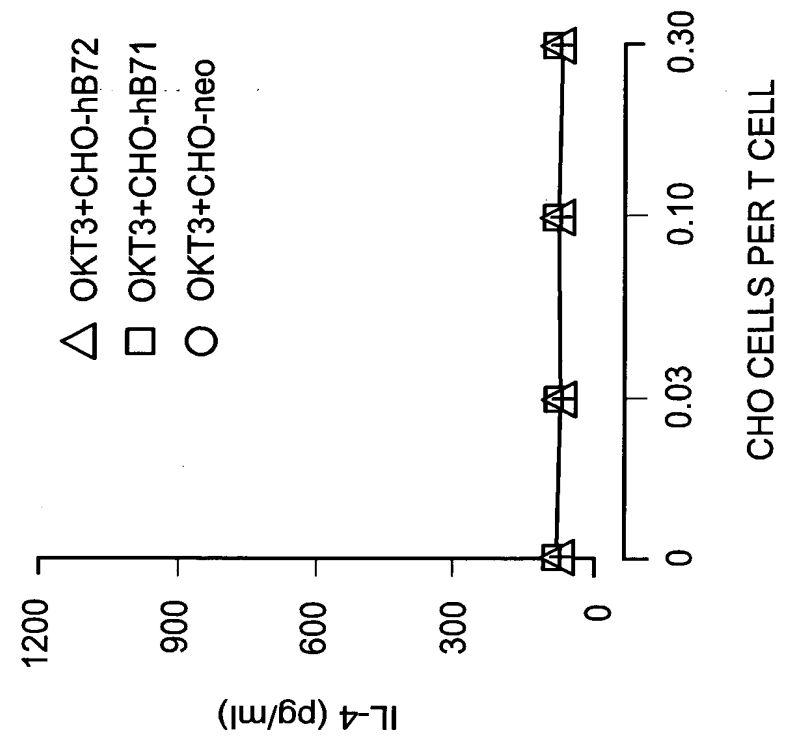


FIG. 24D

CD4<sup>+</sup>/CD45RA<sup>+</sup>T CELLS

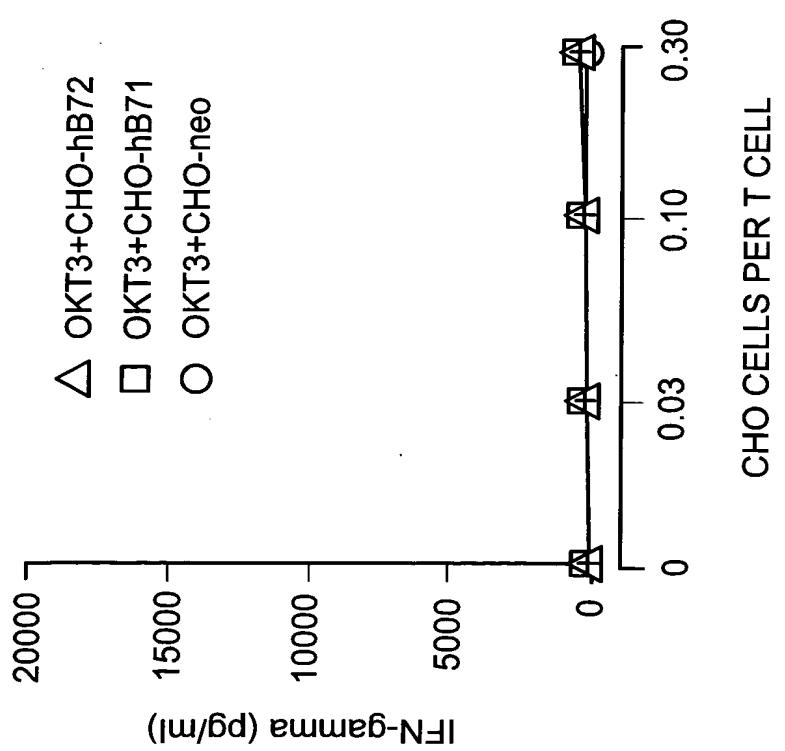


FIG. 24C

APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

29/36

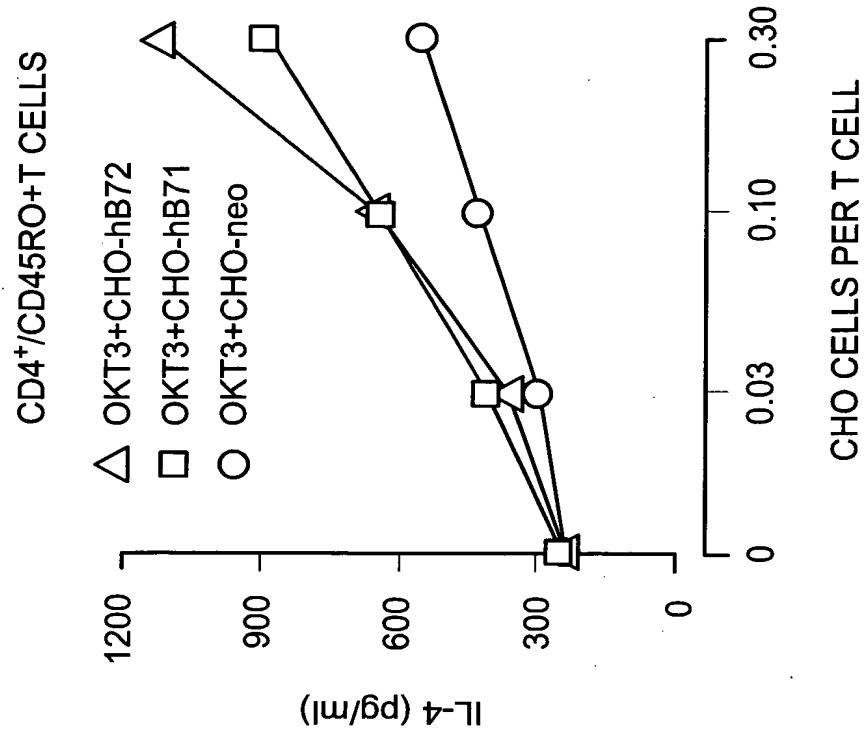


FIG. 24E

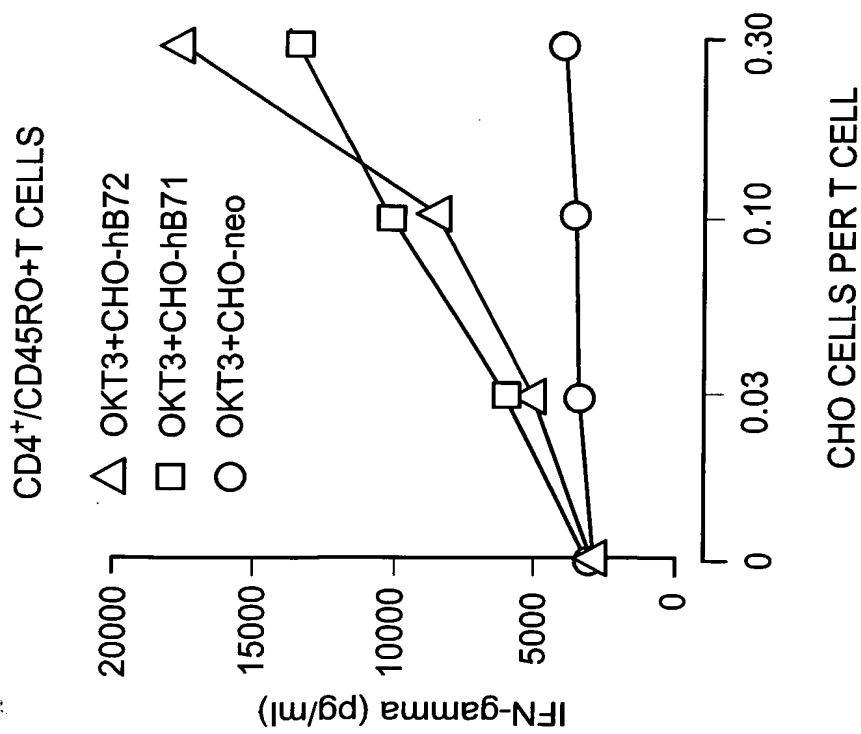


FIG. 24E





O.G. FIG.	
APPROVED	BY
DRAFTSMAN	
CLASS	SUBCLASS

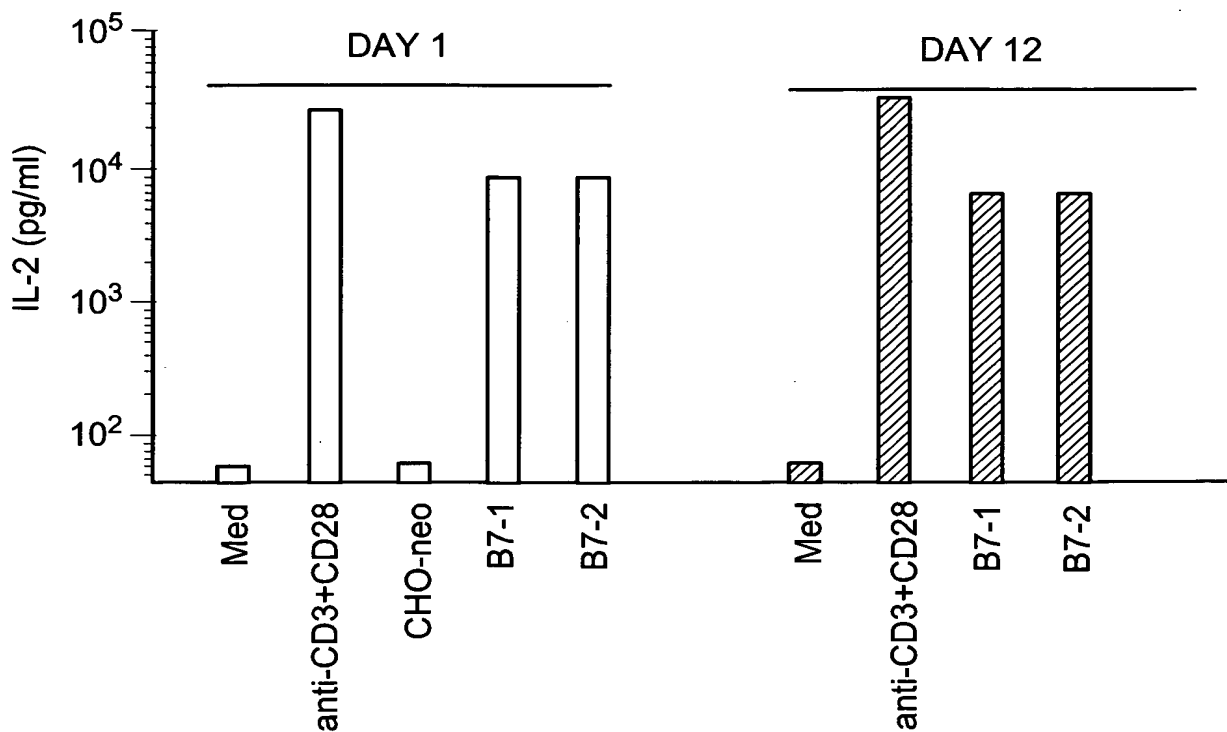


FIG. 25A

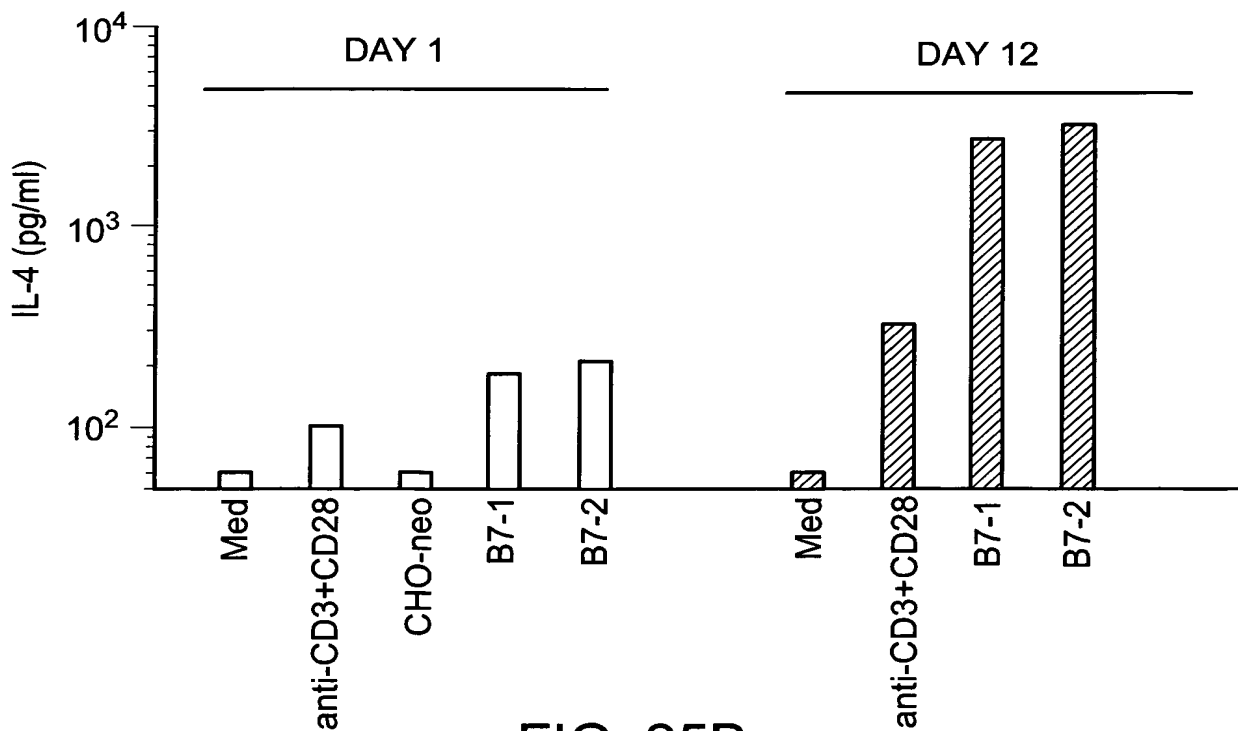
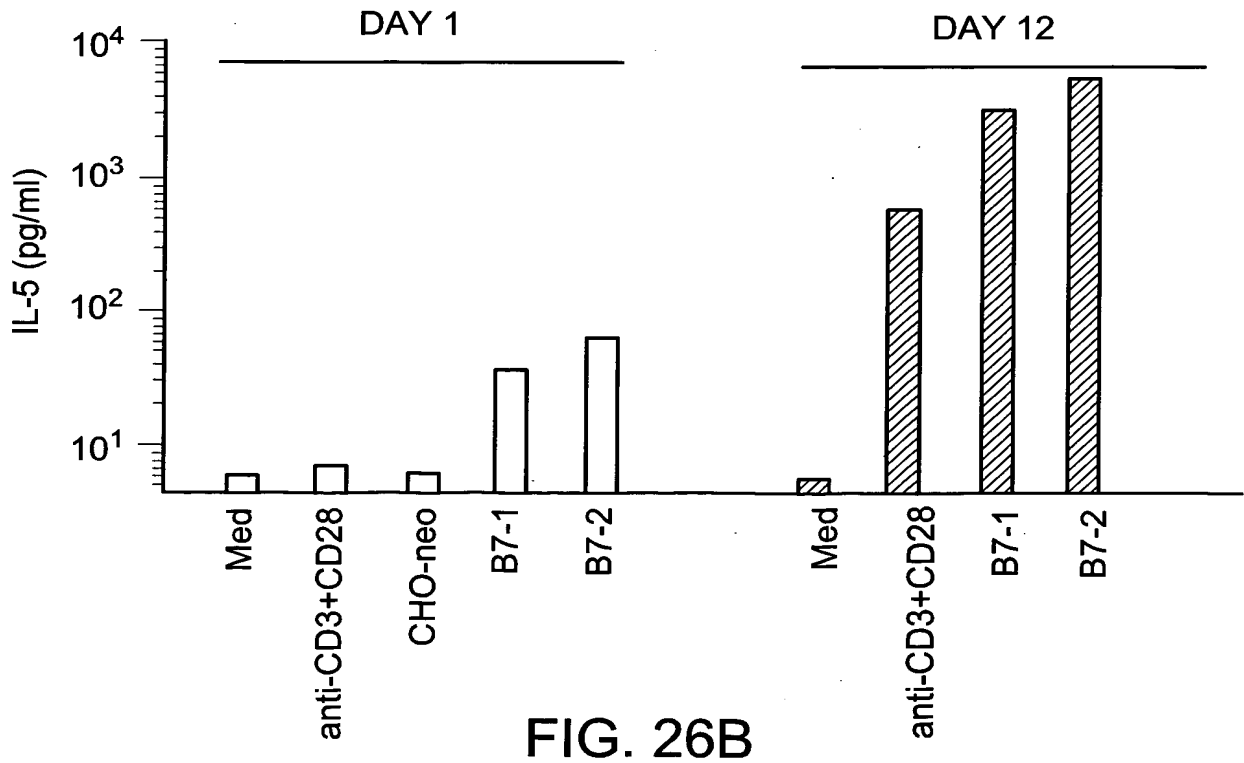
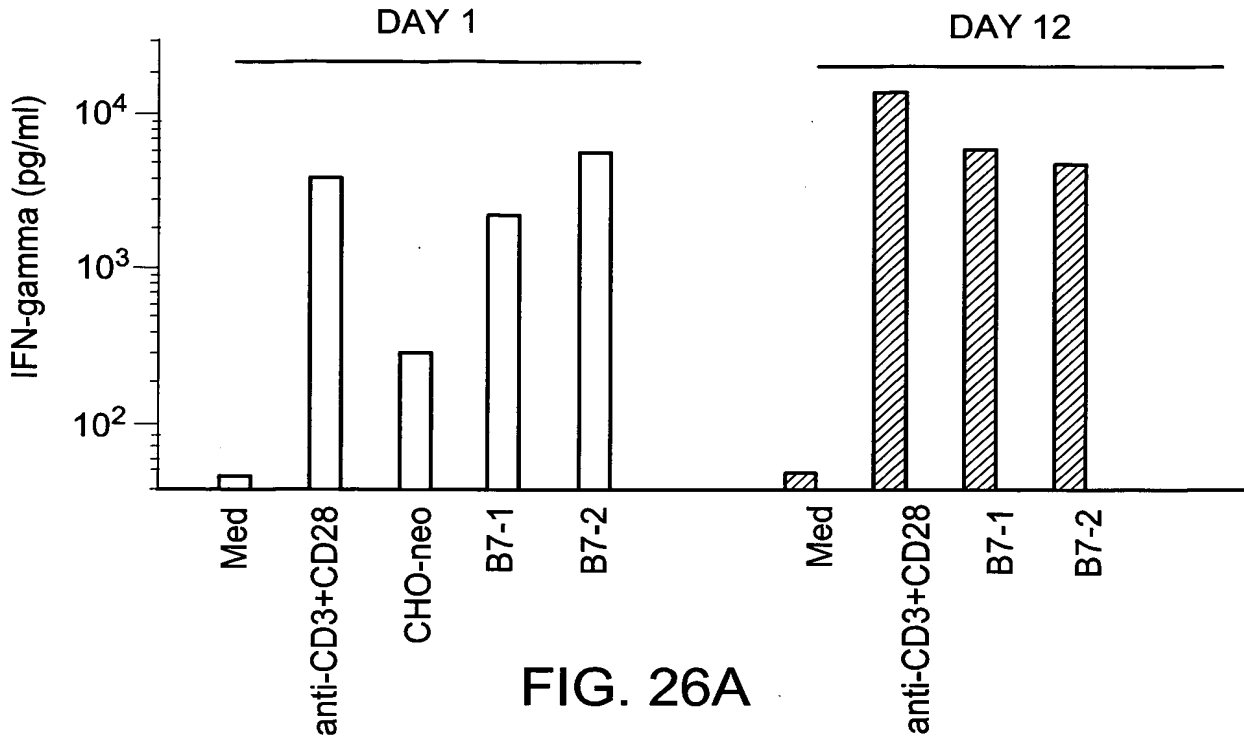


FIG. 25B



APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS



APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

32/36

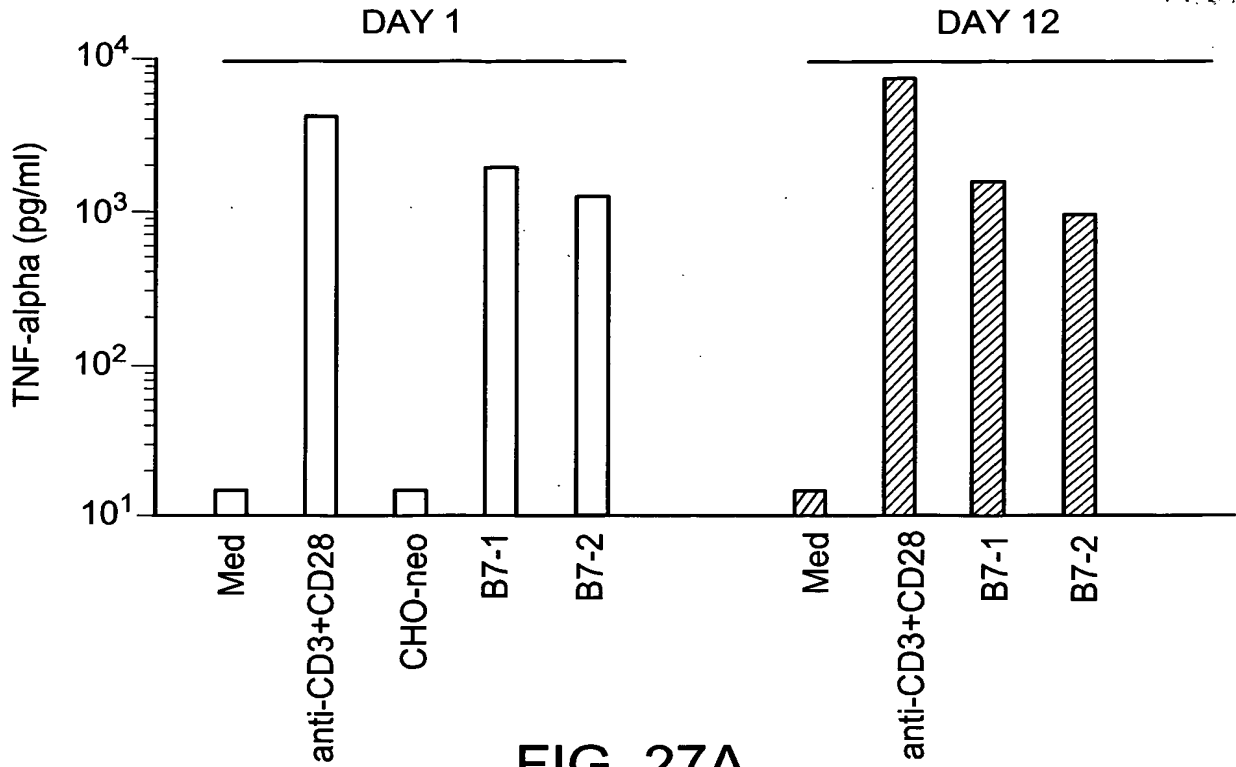


FIG. 27A

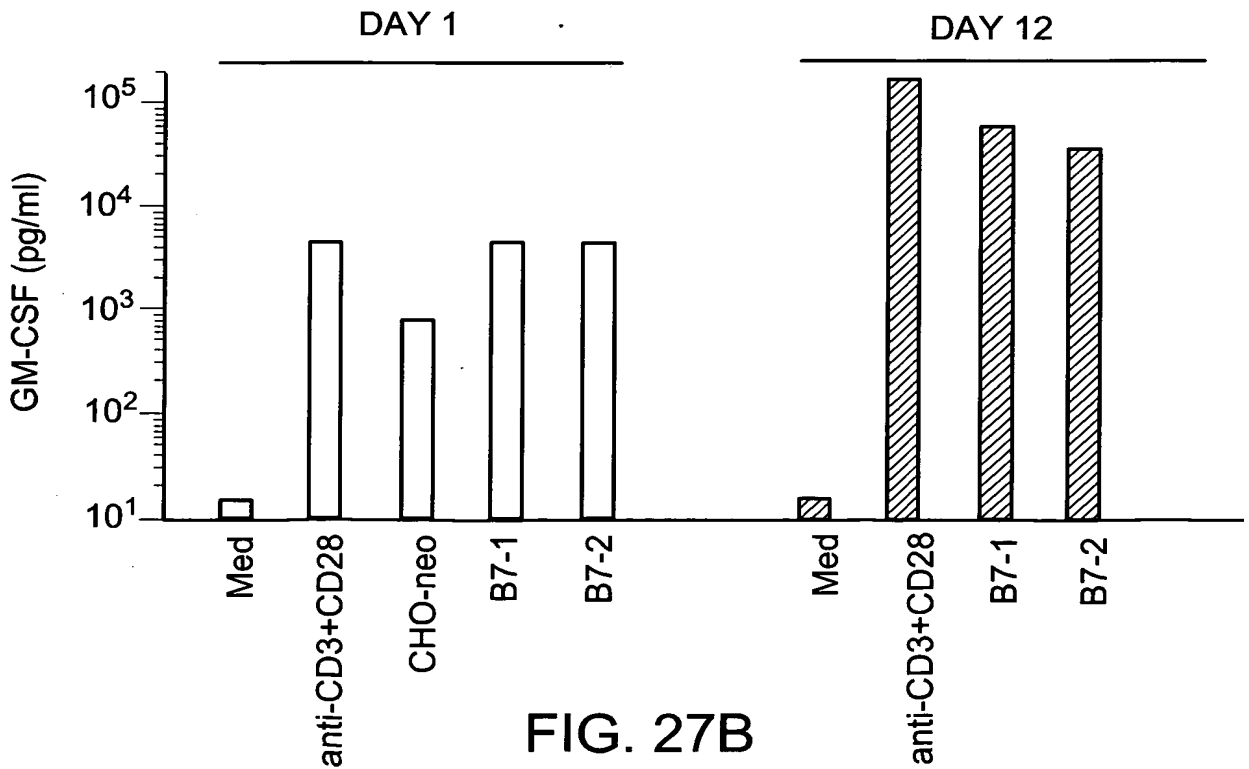


FIG. 27B



APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

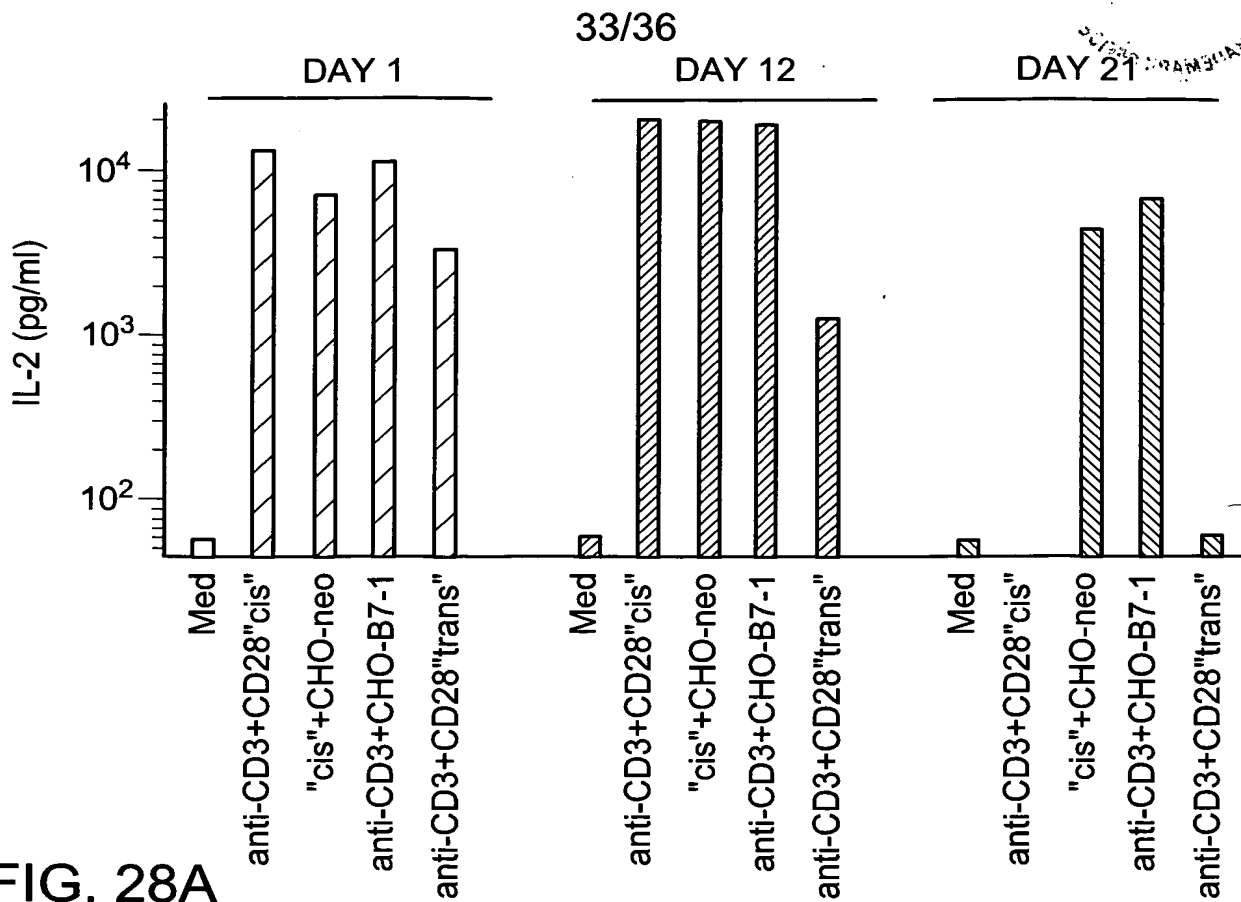


FIG. 28A

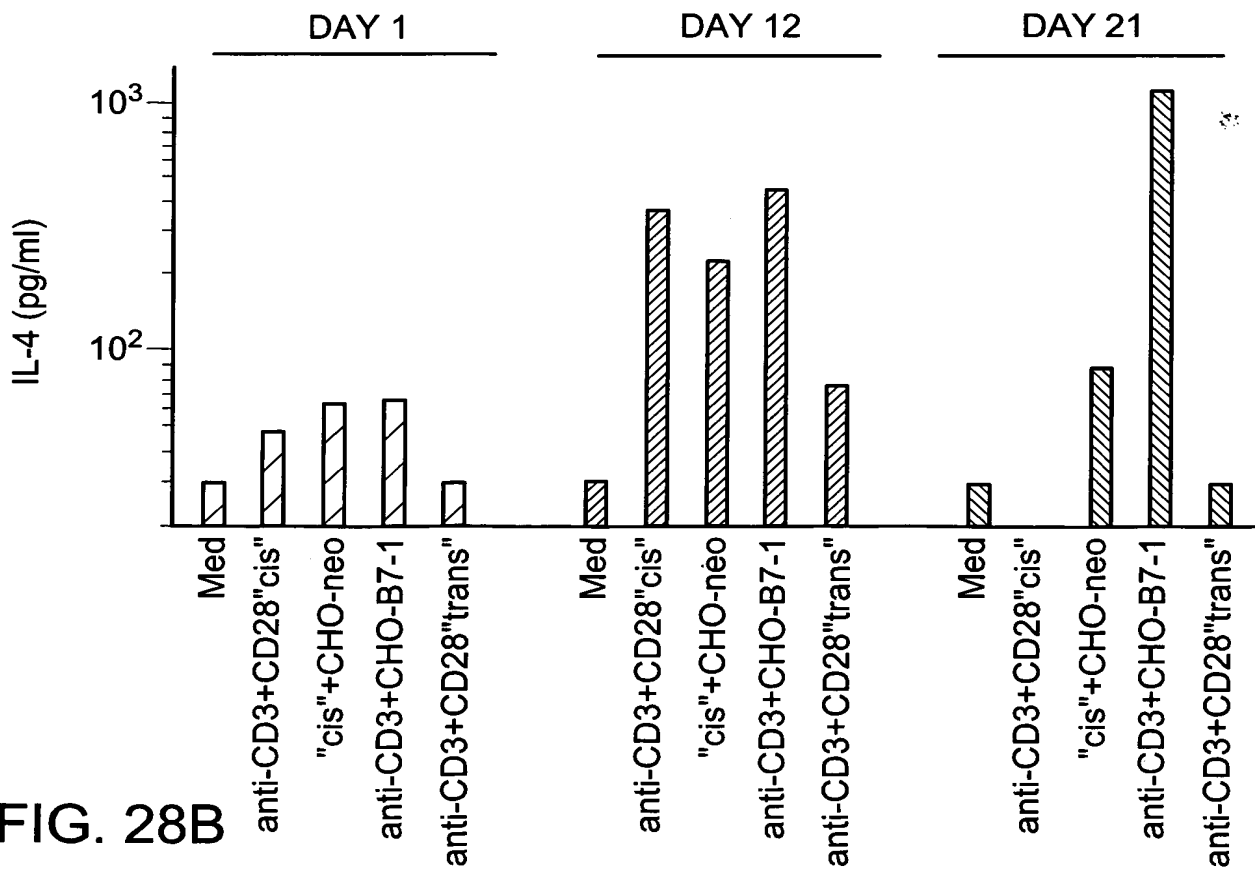
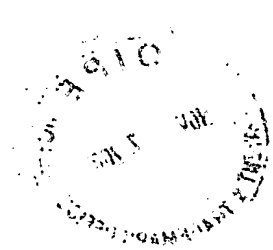


FIG. 28B



APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

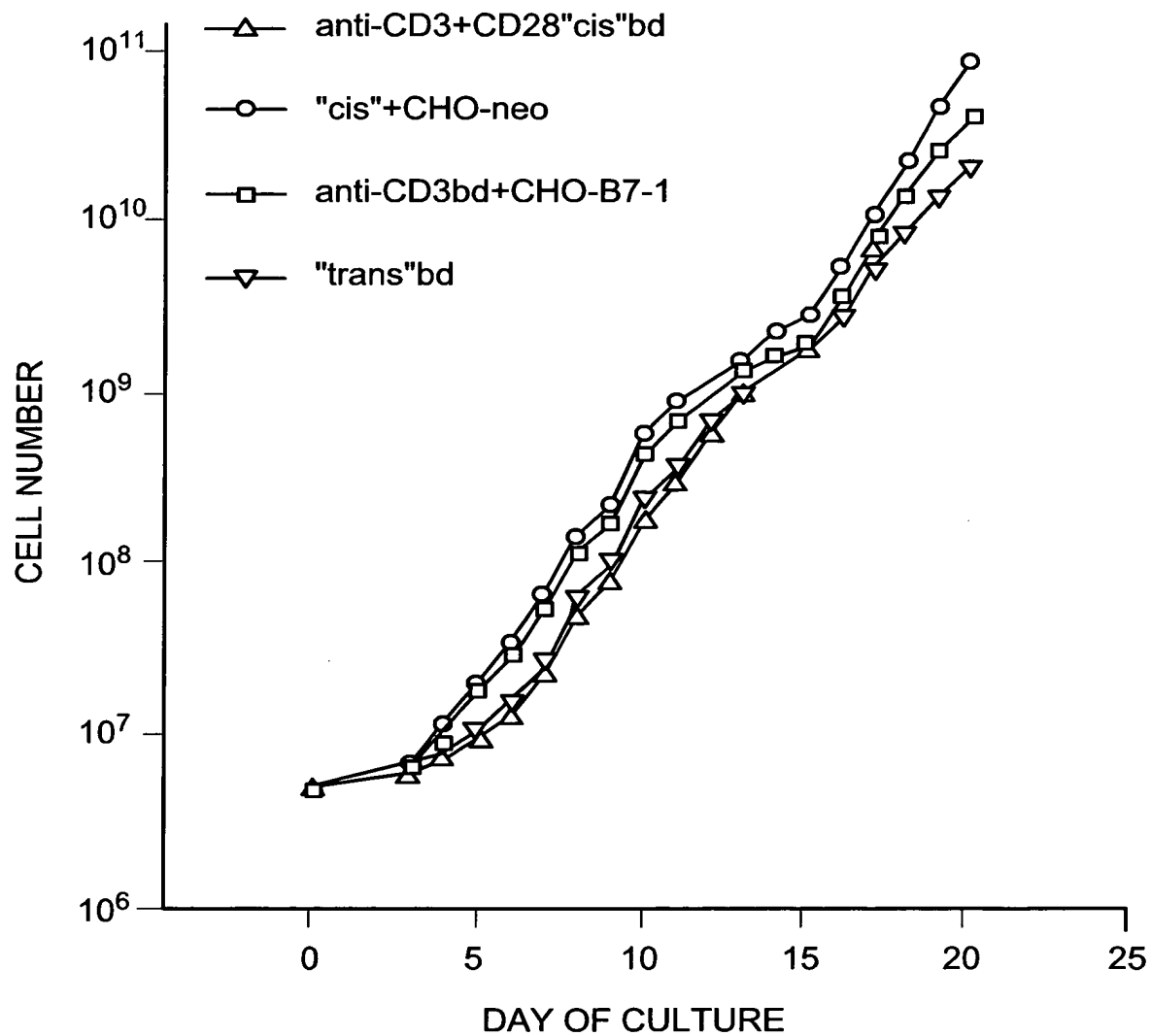


FIG. 29



APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

HIV Pt#713814

—◇— A/D/N
....□.... NO DRUG

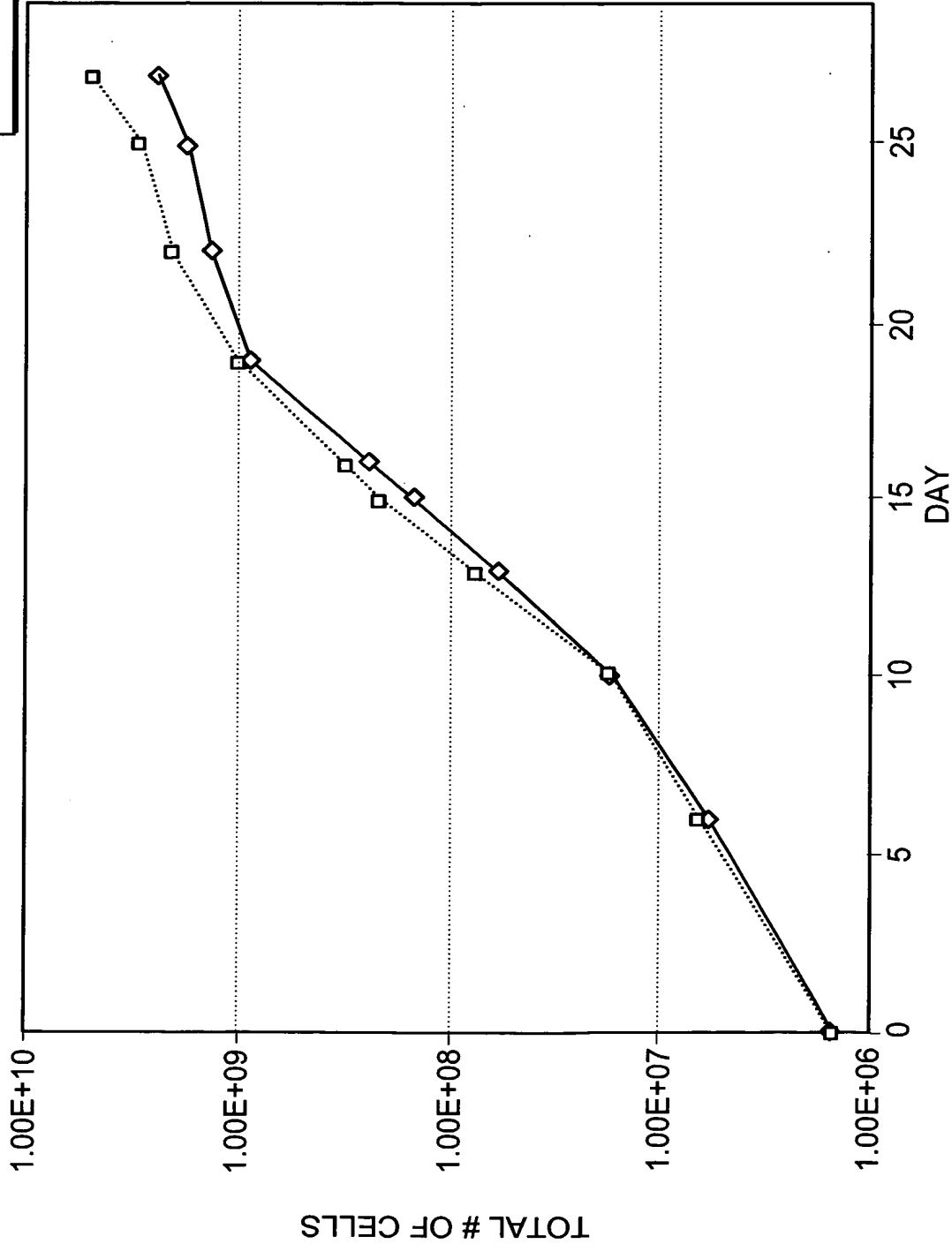


FIG. 30

O.G. FIG.		
APPROVED BY	CLASS	SUBCLASS
DRAFTSMAN		

# POPULATION DOUBLING

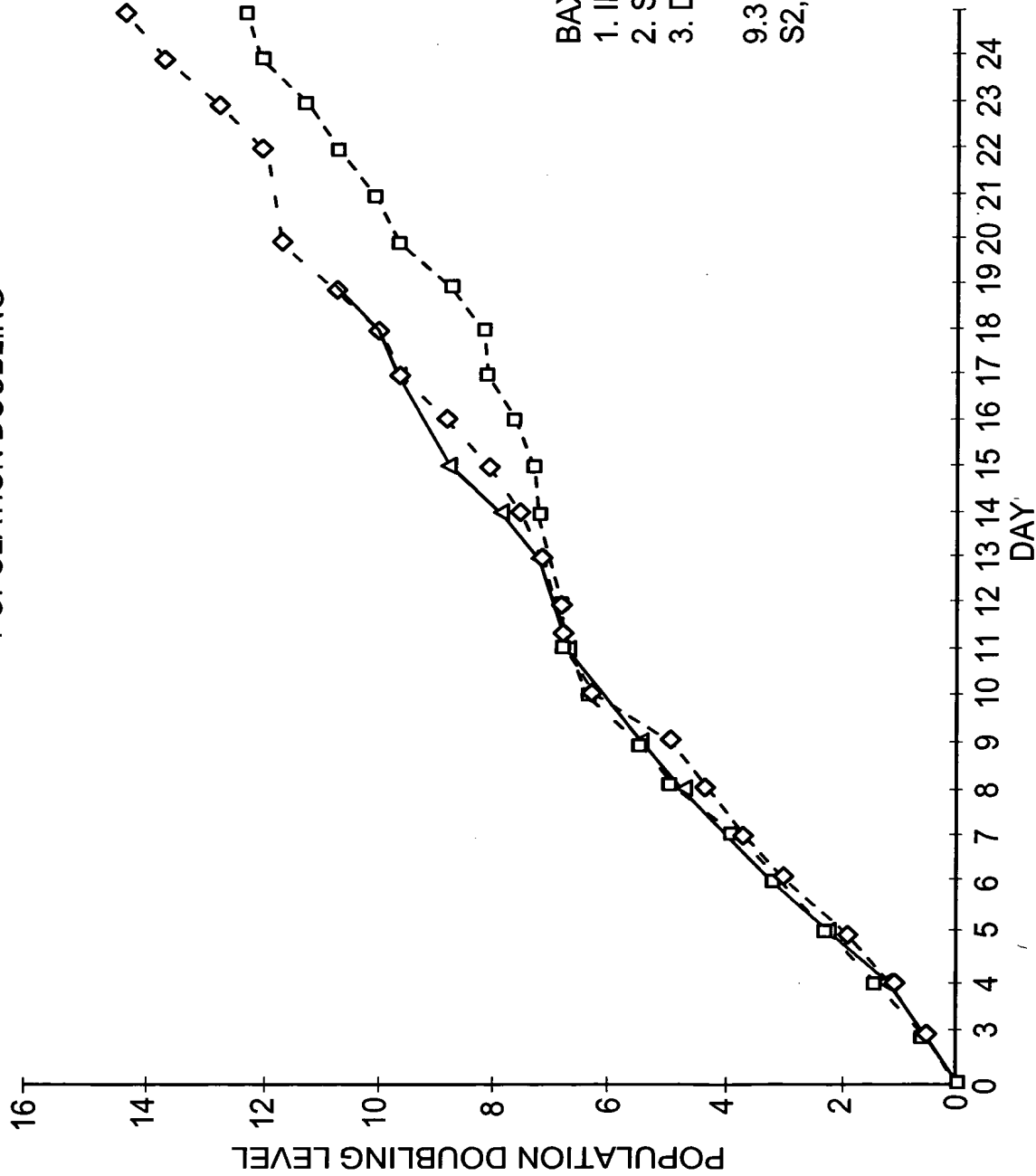


FIG. 31

36/36

- BAXTER:
1. IN BAGS SINCE DAY 6
  2. S2D0 = DAY11
  3. DAY 19 = 2.4E+10
- 9.3 & IL-2:
- S2,D0 = DAY 12

